

# Human/Machine Interfaces

Magelis™ Industrial PC and Display

Catalog

June 2015



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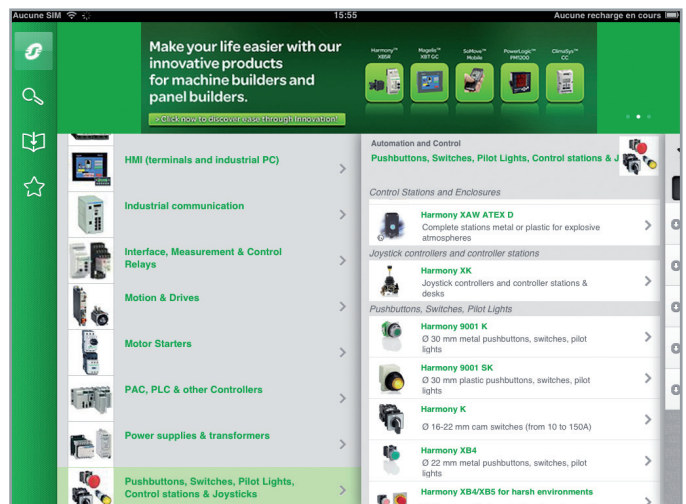
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## Magelis™ Industrial PCs

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# Industrial PCs

## Magelis™ iPCs for automation

Magelis HMIPSP S-Panel PC, HMIP Panel PC, HMIBS S-Box PC, HMIB Box PC and HMIDID iDisplay

### Magelis Industrial PCs

S-Panel, Panel, S-BOX, BOX, Rack and iDisplay

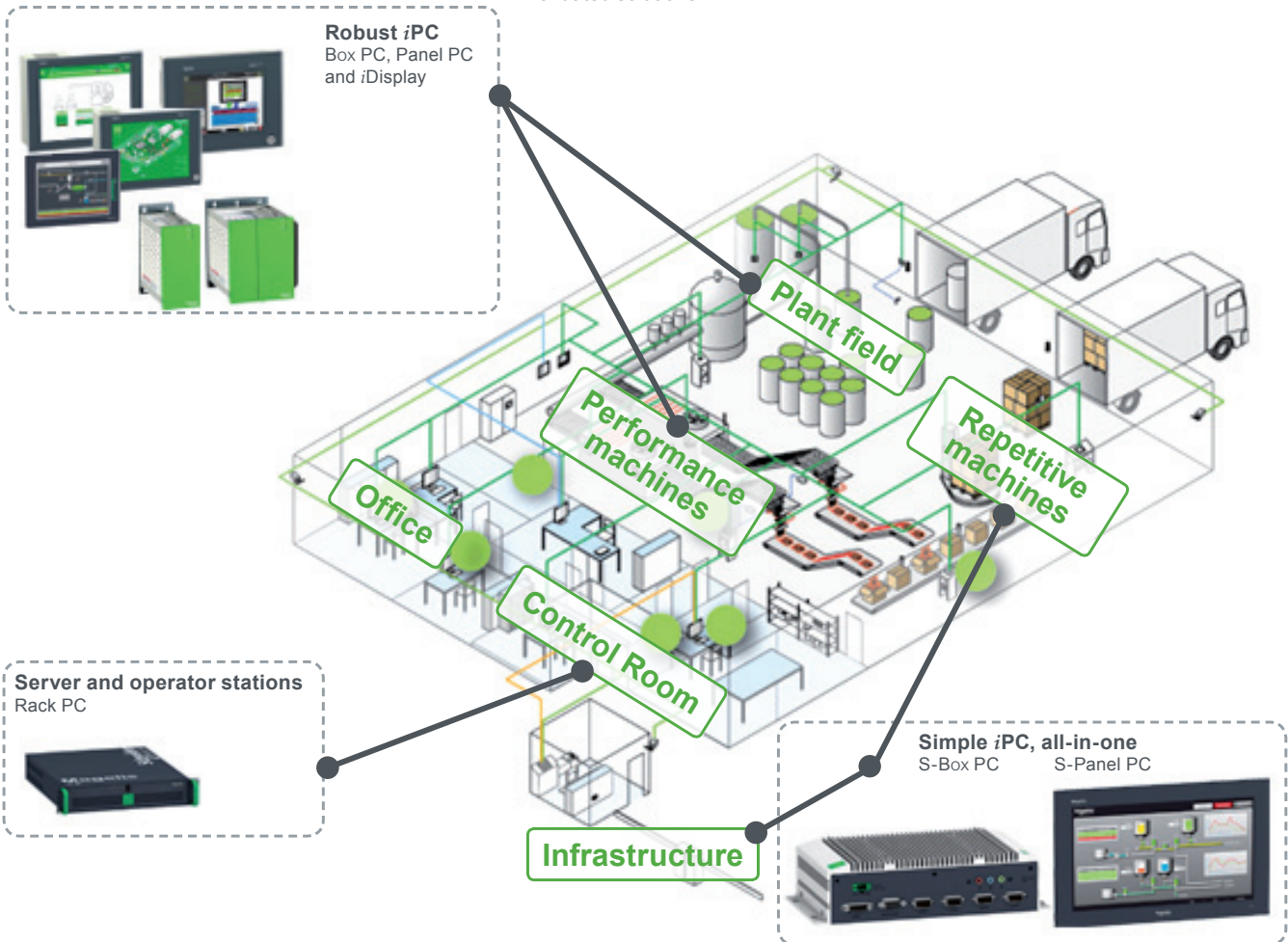
1

As a global specialist in energy management and industrial automation, Schneider Electric offers integrated solutions across multiple market segments with the Magelis iPC product range:

- Robust and certified Magelis Panel PC (Optimum, Universal and Performance) and Box PC (Universal and Performance) for plants and performance machines. Magelis Panel PC have an optional stainless steel bezel for demanding applications.
- Simple Magelis S-Box PC (Optimized and Universal) and S-Panel PC (Performance) for repetitive machines and infrastructures.
- Magelis Rack PC (Optimized, Universal and Performance) for 19" enclosures in control rooms and labs.
- Magelis iDisplay as industrial remote monitors for Magelis iPC or third-party PCs.

Depending on the model, Magelis iPC products offer various options that can be used in Maintenance-free, Harsh, and Standard industrial environments.

Magelis iPCs run on Microsoft operating systems for seamless integration into IT structures. They support Schneider StruXture ware software for complete tested and validated solutions.



### Magelis HMIP Panel PC, HMIB Box PC and HMIDID iDisplay

#### Rugged for various environments

The Magelis Panel PC, Box PC and iDisplay are rugged products with maintenance-free models (no fan, static storage), high-availability options (RAID HDD and battery backup), and integrated system monitoring. Their resistance to temperature, vibration and shock allows them to operate continuously in extremely difficult environments.

In addition, Magelis iPCs offer worldwide long-term availability, ease of substitution for new models and extended time for repair service.

**+ Magelis iPCs → Robust & certified for automation applications**

# Industrial PCs

Magelis *i*PCs for automation  
Magelis HMIP Panel PC, HMIB Box PC and  
HMIDID *i*Display



**Certified for use in the most demanding automation systems, including industrial control equipment, hazardous locations, and marine applications.**

## Magelis HMIP Panel PC, HMIB Box PC and HMIDID *i*Display (continued)

### Certified for automation systems

Depending on the model, Magelis Panel PC, Box PC and *i*Display are certified with the following:

- cULus (UL 508, CSA 22.2 no. 142), Industrial Control Equipment
- cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n° 213)
- ATEX II 3 Gas and Dust zone 2/22 in explosive atmospheres
- Germanischer Lloyd (Bridge Class) for marine applications, C-Tick, GOST

### Optimized Magelis Panel PC

The Optimized Panel PCs are aesthetically and ruggedly designed for simple applications requiring features such as maintenance-free, entry-level CPU, limited connectivity, static cards for storage, and Windows Embedded operating system.



Magelis Panel PC (Optimum)

- Resistive touch screen in 10", 15" or 15" stainless steel versions, 16 M colors, IP 65, LED backlight
- Intel ATOM Z510 1.1 GHz fanless, 1 GB RAM
- 2 Gigabit Ethernet, 1 RS-232, 2 USBs + 1 USB on front panel
- Compact Flash (SLC technology), 1 SD card slot

**Optimum, modular or made-to-order models: you can choose an *i*PC that suits your requirements.**

### Modular and flexible Magelis Panel and Box PCs

The modular design of Magelis Universal and Performance *i*PCs provides a complete and coherent range of referenced products. In addition, this allows Magelis Panel and Box PCs to be made to order.



Magelis Panel PC (Universal or Performance)

- Resistive touch screen in 12", 15", 15" stainless steel or 19" versions, 16 M colors, IP 65, LED backlight
- Intel ATOM N270 1.6 GHz, Core™ 2 Duo 2.26 GHz or iCore™
- 0 to 2 PCI/PCI Express slots, removable drives
- 2 Gigabit Ethernet, 4 USBs + 1 USB on front panel, 1 DVI, up to 4 serial lines



Magelis Box PC

- 2 Gigabit Ethernet, 4 USBs on front panel, up to 2 DVI and 3 serial lines
- Intel ATOM N270 1.6 GHz or Core 2 Duo 2.26 GHz
- 1 to 5 PCI/PCI Express slots
- Removable drives: Compact Flash (SLC), Flash Disk (SSD) or HDD and DVD-RW

### Magelis *i*Display screens

Magelis *i*Display screens (12" and 15" sizes) are robust monitors with an excellent screen size/dimensions ratio and can be used in conjunction with industrial PCs. They have the same cut-out dimensions as Magelis Panel PCs and Magelis HMI operator panels, which makes it easy to upgrade installations.



Magelis *i*Display

- 12"/15" color TFT LCDs
- 1 USB on front panel, 1 VGA video, 1 DVI-D video, 1 USB, 1 RS-232C
- IP 65 and Nema 4X indoor for the front of the screen, IP 20 for the sides and back of the screen

**+ Magelis *i*PCs → The right *i*PC for every industrial environment**

## Industrial PCs

### Magelis iPCs for automation

Magelis HMIPSP S-Panel PC, HMIBS S-Box PC and HMIR Rack PC

1

#### Magelis HMIPSP S-Panel PC

##### Simple design

- Simple sophisticated all-in-one hardware
- High-performance iCore CPU without fan
- Default storage drive slots and Mini PCIe slots for optional interfaces
- Configurations on request and front panel customization for application needs
- Slim with less than 57 mm/2.24 in. depth



##### Magelis S-Panel PC (Performance)

- Intel i3-4010U Dual core 1.7 GHz, fanless, 8 GB DDR3 RAM
- 1 Mini PCI Express full slot
- 2 Gigabit Ethernet, 2 COM (RS-232/422/485, RS-232), 2 USB 3.0, 1 HD audio port, 1 HDMI video port

##### Smartphone or tablet-like navigation

- Wide multi-touch screens with IP 66, 7H hardness and anti-scratch front panels
- Tap, scroll, pinch and drag with 5 point multi-touch gestures
- Fluid, natural and intuitive interface powered with Windows 8.1 operating system

##### Improved customer productivity

- Performing Intel CPU Core i3 4<sup>th</sup> generation and 8 GB DDR3 RAM
- Ready-to-run Schneider Electric and third-party softwares
- Link to IT systems with dual Gigabit Ethernet ports

Magelis S-Box PC is just enough for applications in repetitive machines and infrastructures requiring the Windows® operating system.

#### Magelis HMIBS S-Box PC

##### All-in-one simple design

- Easy choice and quick ordering with only 2 versions (Optimized and Universal)
- Wall mounting with small footprint and downsized enclosure
- Simple installation with maintenance-free non-rotating parts
- In solutions that are tested, validated and supported by Schneider



##### Magelis S-Box PC (Optimized)

- Intel ATOM N270 1.6 GHz, fanless, 2 GB RAM
- Mini PCI Express® slot (1 half-size)
- 1 Gigabit Ethernet, 2 RS-232, 4 RS-232/422/485, 2 USB
- 8 GB Compact Flash card, Compact Flash slot and internal SATA slot for HDD/SSD



##### Magelis S-Box PC (Universal)

- Intel ATOM N2600 1.6 GHz, fanless, 2 GB RAM
- Mini PCI Express slot (1 full-size)
- 3 Gigabit Ethernet, 2 RS-232, 5 USB
- 8 GB Compact Flash card, additional internal SATA slot for HDD or SSD

Magelis Rack PC is a complete range that meets the various needs of Plant Structure architecture, from dedicated applications in new economies and operator stations to large Engineering and SCADA servers.

#### Magelis HMIR Rack PC

##### One-stop shopping and easy installation

Magelis HMIRs offer one-stop shopping for a complete plant solution that has been tested and validated by Schneider Electric, along with Plant Structure software Vijeo Citect and PES Engineering. Magelis HMIRs can be easily installed in Actassi 19" enclosures and connected to Magelis iDisplay for display screen.



##### Magelis Rack PC 2U (Optimized) (1)

- Intel iCore G540 2.5 GHz or G850 2.9 GHz, 2 GB RAM
- 2 PCI Express (x8) + 1 PCI
- 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port
- 1 internal SATA3 slot and 2 external SATA2 trays, 1 DVD-RW drive

(1) Rack 2U or 4U is a unit used to measure the height of a device to be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

**+** Magelis S-Box → PCs with simplicity and serenity



#### Magelis HMIR Rack PC (continued)



- Magelis Rack PC 2U (Universal) (1)
- Intel i3-2120 3.3 GHz, 4 GB RAM
  - 2 PCI Express (x16) + 1 PCI
  - 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port



- Magelis Rack PC 4U (Performance) (1)
- Intel Xeon 1225 3.1 GHz, 4/8 GB RAM
  - 4 PCI Express (x16) + 3 PCI
  - 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port
  - Dedicated models to run PES Engineering and Server operating systems

#### Hot swappable trays and low noise fans

All Magelis Rack PCs have hot swappable front trays for easy replacement of storage devices. They can also be used for redundant RAID HDDs configured with internal Intel software.

The low noise in control rooms due to embedded fan speed control is a boon to operators.

#### Ease of IT integration

##### StruXture ware software bundles



Magelis iPCs support the following Schneider software bundles:

- HMI software: Vijeo Designer Run Time with IDS suite and Vijeo XD Run Time interacting with control software (e.g., SoMachine protocol for PLCs and Pac Drive driver for Motion controllers)
- SCADA software with Vijeo Citect, recommended with SSD drives due to a greater number of read/write operations on storage drives
- SCADA web clients on models with Compact Flash storage drives as "thin clients"
- PLC Programming software (Unity and SoMachine) for field maintenance operations (requires minimum 2 GB RAM)
- Engineering software with PlantStruxure Process Expert for Magelis Rack PC

#### Integration in IT structures

Magelis iPCs run on Microsoft operating systems allowing:

- Connection of PC peripherals and large data storage
- Ease of connection to computers and databases
- Simultaneous operation of several programs
- Server applications on Magelis Rack PC

Depending on the iPC models, a wide choice of compatible operating systems are available.



(1) Rack 2U or 4U is a unit used to measure the height of a device to be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

Magelis iPCs support Schneider StruXture ware software for complete tested and validated solutions.

2 built-in Ethernet ports on Magelis iPCs separate the IT and automation data flow, reinforcing the overall availability of the system.

# Industrial PCs

## Magelis™ iPCs for automation

### Magelis HMIPSP S-Panel PC and HMIP Panel PC

Type of Magelis iPC
Industrial environments

Magelis HMIPSP S-Panel PC	Magelis HMIP Panel PC
Simple Performance range	Robust Optimum range
Standard	Maintenance-free



<b>Fanless</b>	★★★★★
<b>Non-rotative storage drive</b>	★★★★★
<b>Sizes of color touch screen and front panel bezel material</b>	<input type="checkbox"/> 15" multi-touch capacitive <input type="checkbox"/> 19" multi-touch capacitive
<b>CPU (1)</b>	Processor
	PCI slot
	Storage
	RAM
<b>Operating system</b>	None or WES 7 Premium SP1 (64-bit) or Win 8.1 Industry (64-bit Multi-language) (3)
<b>Supply voltage</b>	Aluminum bezel versions Stainless steel bezel versions
<b>Standards and certifications</b>	<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> C-Tick <input type="checkbox"/> RCM <input type="checkbox"/> EAC (4) <input type="checkbox"/> CCC <input type="checkbox"/> FCC (part 15 EMC Class A)
<b>Marine certification</b>	–
<b>Software</b>	<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect DVD is only for installation, depending on the model. Software activation license to be ordered separately.
<b>References</b>	Aluminum bezel versions Stainless steel bezel versions
<b>Pages</b>	2/2 and 2/3
<b>Made-to-order configuration</b>	See configured Magelis S-Panel PC on page 2/9

★★★★★	★★★★★
★★★★★	★★★★★
<input type="checkbox"/> 15" multi-touch capacitive <input type="checkbox"/> 19" multi-touch capacitive	<input type="checkbox"/> 10.4" Aluminum bezel <input type="checkbox"/> 15" Aluminum or Stainless steel bezel
Intel i3-4010U Dual Core (1.7 GHz) iCore 4 <sup>th</sup> generation	Intel® ATOM™ Z510 (1.1 GHz)
1 Mini PCIe slot full size	0
Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF or HDD hard disk ≥ 500 GB Enterprise 24/7	Compact Flash card (SLC technology) and integrated SD card reader
8 GB	1 or 2 GB
None or WES 7 Premium SP1 (64-bit) or Win 8.1 Industry (64-bit Multi-language) (3)	Windows® Embedded Standard 2009
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSMAC1.	24 V ~
<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> C-Tick <input type="checkbox"/> RCM <input type="checkbox"/> EAC (4) <input type="checkbox"/> CCC <input type="checkbox"/> FCC (part 15 EMC Class A)	<input type="checkbox"/> CE <input type="checkbox"/> cULus and cULus Haz Loc <input type="checkbox"/> ATEX II 3 Gas and Dust Zone 2/22 (Optimum range 15" Stainless steel bezel version only) and ATEX II 3 Dust Zone 22 (Universal range 15" Stainless steel bezel version only) <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...
–	Bridge Class (only 24 V ~ Magelis Panel PC with Aluminum bezel) Requires additional power supply filter HMIYLFIMAR11.
<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect DVD is only for installation, depending on the model. Software activation license to be ordered separately.	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect, depending on the model.
<b>HMIPSP●752D1●01</b> <b>HMIPSP●952D1●01</b>	<b>HMIPWC●●●●●●●●</b> <b>HMIPVC7D0E01</b>
2/2 and 2/3	3/2 and 3/3
See configured Magelis S-Panel PC on page 2/9	See configured Magelis Panel PC on page 3/27

(1) For other options available (interface for backup battery, 3<sup>rd</sup> serial port, etc.) in made-to-order configuration, see pages 3/27 (Magelis Panel PC) and 5/10 (Magelis Box PC).  
 (2) 12" Aluminum bezel models require additional SRAM interface HMIYPINSRAM61.

Magelis HMIP Panel PC			
Robust Universal range		Robust Performance range	
Maintenance-free	Standard	Maintenance-free or Harsh	Standard



★★★★★	★★★★★ (15" and 19" only)	★★★★★ (12" only)	–
★★★★★	–	★★★★★	–
<input type="checkbox"/> 12" Aluminum bezel <input type="checkbox"/> 15" Aluminum or Stainless steel bezel <input type="checkbox"/> 19" Aluminum bezel	<input type="checkbox"/> 12" Aluminum bezel <input type="checkbox"/> 15" Aluminum or Stainless steel bezel <input type="checkbox"/> 19" Aluminum bezel	<input type="checkbox"/> 12" Aluminum bezel <input type="checkbox"/> 15" Aluminum or Stainless steel bezel <input type="checkbox"/> 19" Aluminum bezel	–
Intel iCore™ 827E low power or Intel ATOM N270 (1.6 GHz)		Intel i3 3217UE Dual Core low power or Core 2 Duo P8400 (2.26 GHz)	
0 or 2	0 or 2	0 or 2	0 or 2
Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF	Hard disk	SSD flash disk with 2 million hours MTBF	Hard disk
2 GB	4 GB	4 GB	–
Windows Embedded Standard 2009 or Windows XP SP3 or Windows 7 Ultimate 64-bit Professional	Windows XP Professional SP3	Windows 7 Ultimate 64-bit	–
24 V ~ or 100...240 V ~	24 V ~ or 100...240 V ~	24 V ~ or 100...240 V ~	–
24 V ~	100...240 V ~	–	–
<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> cULus Haz Loc <input type="checkbox"/> ATEX II 3 Gas and Dust Zone 2/22 (Optimum range 15" Stainless steel bezel version only) and ATEX II 3 Dust Zone 22 (Universal range 15" Stainless steel bezel version only) <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...	<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> cULus Haz Loc <input type="checkbox"/> ATEX II 3 Gas and Dust Zone 2/22 (Optimum range 15" Stainless steel bezel version only) and ATEX II 3 Dust Zone 22 (Stainless steel bezel versions only) <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...	<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> cULus Haz Loc <input type="checkbox"/> ATEX II 3 Dust Zone 22 (Stainless steel bezel versions only) <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...	–
<input type="checkbox"/> Bridge Class (only 24 V ~ Magelis Panel PC with Aluminum bezel) Requires additional power supply filter HMIYLFIMAR11.	–	–	–
<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect, depending on the model.	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect, depending on the model.	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect, depending on the model.	–
<b>HMIPUC●●●●●●●●</b> <b>HMIPUF●●●●●●●●</b> <b>HMIPTF7D2P01</b>	<b>HMIPUH●●●●●●●●</b> <b>HMIPTH7D2P01</b>	<b>HMIPPF●●●●●●●●</b>	<b>HMIPPH●●●●●●●●</b> <b>HMIPRH7A2701</b>
3/6 and 3/7, 3/14 to 3/17	3/15 to 3/17	3/15 to 3/17	–
See configured Magelis Panel PC on page 3/27	See configured Magelis Panel PC on page 3/27	See configured Magelis Panel PC on page 3/27	–

(3) Win 8.1 requires user activation.  
 (4) EAC certification will be available in 4th quarter, 2015.


# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBS S-Box PC and HMIB Box PC

<b>Type of Magelis iPC</b>		<b>Magelis HMIBS S-Box PC</b>			
<b>Industrial environments</b>		<b>Optimized range</b>	<b>Universal range</b>		
		<b>Standard</b>			
					
<b>Fanless</b>		★★★★★	★★★★★	–	–
<b>Non-rotative storage drive</b>		★★★★★	★★★★★	–	★★★★★
<b>Sizes of color touch screen and front panel bezel material</b>		Compatible with all screens of Magelis iDisplay range (2)			
<b>CPU (1)</b>	Processor	Intel ATOM N270 (1.6 GHz)	Intel ATOM N2600 (1.6 GHz)		
	PCI slot	1 half size Mini PCI Express® slot	1 full size Mini PCI Express slot		
	Storage	Compact Flash card	CFAST card	SSD with 5-year Intel warranty and 2 million hours MTBF	–
	RAM	2 GB	4 GB		
<b>Operating system</b>		Windows Embedded Standard 2009	Windows 7 32 bits (WES 7 Premium)		–
<b>Supply voltage</b>		9...36 V ---	12...24 V ---		
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> EAC <input type="checkbox"/> CCC			
<b>Marine certification</b>		–			
<b>Software</b>	Vijeo Designer and Vijeo XD RT Demo	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.			
	Bundle (validated and supported)	–			
<b>References</b>		<b>HMIBSOCND1E01</b>	<b>HMIBSUCND1W01</b>	<b>HMIBSUSND1W01</b>	<b>HMIBSU0ND1001</b>
<b>Pages</b>		4/2 and 4/3			

(1) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.  
(2) For more information, refer to "Chapter 7: Magelis iDisplay".

<b>Magelis HMIB Box PC</b>			
<b>Universal range</b>		<b>Performance range</b>	
<b>Maintenance-free</b>	<b>Standard</b>	<b>Harsh</b>	<b>Standard</b>
			
★★★★★	–	–	–
★★★★★	–	★★★★★	–
Compatible with all screens of Magelis iDisplay range (2)			
Intel ATOM N270 (1.6 GHz)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset	
1 or 2		2 or 5	
Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF	Hard disk	SSD flash disk with 2 million hours MTBF	Hard disk
2 GB		4 GB	
Windows Embedded Standard 2009 or Windows XP Professional SP3	Windows XP Professional SP3	Windows 7 Ultimate 64-bit	
24 V ---			
<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> cULus Haz Loc <input type="checkbox"/> ATEX II 3 Dust Zone 22 ...			
Bridge Class	–		
<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ. <input type="checkbox"/> Vijeo Citect, depending on the model.			
–			
<b>HMIBUCN●●●●●</b>	<b>HMIBUHN●●●●●</b>	<b>HMIBPFD●●●●●</b>	<b>HMIBPHD●●●●●</b>
<b>HMIBUFN●●●●●</b>			
5/2 and 5/3			

Type of Magelis iPC	Magelis HMIR Rack PC
Industrial environments	Optimized PC 2U range (3) Control rooms and labs



Fanless	-		
Non-rotative storage drive	-		
Sizes of color touch screen and front panel bezel material	Compatible with all screens in the Magelis iDisplay range (2)		
CPU (1)	Processor	Intel iCore G540 (2.5 GHz)   Intel iCore G850 (2.9 GHz)	
	PCI slot	2 PCI Express (x8) + 1 PCI	
	Storage	No storage drive or 1 HDD   1 HDD	
	RAM	2 GB DDR3	
Operating system	None or Windows 7	Windows 7	
	Supply voltage	110...240 V ~ (300 W single power supply)	
Standards and certifications	<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> EAC <input type="checkbox"/> CCC		
Software	Vijeo Designer and Vijeo XD RT Demo	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	
	Bundle (validated and supported)	-	
References	<b>HMIRXOHC3●01</b>	<b>HMIRSOHPA3W01</b>	
Pages	6/2 and 6/3		

(1) Require Vijeo Designer V6.2 SP2 or further to build and download HMI application.  
 (2) For more information, refer to "Chapter 7: Magelis iDisplay".  
 (3) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

Magelis HMIR Rack PC		
Universal PC 2U range (3)	Performance PC 4U range (3)	
Control rooms and labs	Control rooms and labs	



Fanless	-		
Non-rotative storage drive	-		
Sizes of color touch screen and front panel bezel material	Compatible with all screens in the Magelis iDisplay range (2)		
CPU (1)	Processor	Intel i3-2120 (3.3 GHz)   Intel Xeon™ Quad core E3-1225 (3.1 GHz)	
	PCI slot	2 PCI Express (x16) + 1 PCI   Up to 7 slots: 4 PCI Express (x16) + 3 PCI	
	Storage	1 HDD or 1 SSD   1 HDD, 2 HDD RAID or 1 SSD	
	RAM	4 GB DDR3   4 GB DDR3, 4 GB ECC or 8 GB DDR3	
Operating system	Windows 7	Windows 7 or Windows Server 2008 Standard R2 or Windows Server 2012 R2	
	Supply voltage	110...240 V ~ (300 W single power supply)   110...240 V ~ (500 W single or redundant power supply)	
Standards and certifications	<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> EAC <input type="checkbox"/> CCC		
Software	Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	
	No or Vijeo Citect DVD for SCADA applications	No or Vijeo Citect DVD or PES leaflet	
References	<b>HMIRSU●3A3701</b>	<b>HMIRSP●X●6●●●</b>	
Pages	6/2 and 6/3		

(1) Require Vijeo Designer V6.2 SP2 or further to build and download HMI application.  
 (2) For more information, refer to "Chapter 7: Magelis iDisplay".  
 (3) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.



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## Magelis HMIPSP S-Panel PC

**Selection guide** ..... page 2/2

■ **Presentation**

- Overview of the range
  - Magelis HMIPSP Performance ..... page 2/4
- HMI software support for Magelis HMIPSP ..... page 2/4

■ **Description**

- Magelis HMIPSP Performance: 15" and 19" ..... page 2/5

■ **References**

- Magelis HMIPSP Performance: 15" Multi-touch screen ..... page 2/6
- Magelis HMIPSP Performance: 19" Multi-touch screen ..... page 2/6
- Separate components ..... page 2/7
- Configured To Order: Magelis HMIPSP ..... page 2/9



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPSP S-Panel PC

Performance range with 15" and 19" touch screens

#### Type

##### Simple panel PC Performance range - 15" touch screen



<b>Screen</b>	Type	15" wide LCD 5 point capacitive multi-touch LED screen		
	Size	15.6" wide		
	Resolution	HD WFXGA 1366 x 768, 16.7 million colors		
	Degree of protection	IP 66, Nema 4X indoor, 7H hardness and anti-scratch front panels		
	View angle	Vertical 160°, horizontal 170°		
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F		
<b>CPU</b>	Processor	Intel i3-4010U dual-core (1.7 GHz) iCore 4 <sup>th</sup> generation (low power fanless)		
	Expansion slot	1 Mini PCI Express full size slot with 1 optional interface slot (1)		
	Default storage drive	–	SSD flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7
	Storage drive slots	1 CFAST slot 1 x 2.5" SATA HDD/SSD storage slot, user accessible		
	RAM (2)	8 GB DDR3		
	Integrated ports	2 Ethernet 10/100/1000 Mbps (Eth1 supports AMT (active management technology)) 2 USB 3.0 1 RS-232, 1 RS-232C/422/485 1 HDMI port 1 Audio out 3 SMA connectors for the external antennas		
<b>Operating system</b>		–	Win 8.1 Industry (64-bit Multi-language) (5)	
<b>Power supply</b>	Supply voltage	24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYSPMAC1.		
	Power consumption	18 W typical, 60 W max.		
<b>Dimensions</b>	Overall (W x H x D)	419.7 x 269 x 56.7 mm (16.52 x 10.59 x 2.23 in.)		
	Mounting cut-out (W x H) with Snap hook (6)	412.4 x 261.7 mm (16.24 x 10.30 in.)		
<b>Temperature</b>	During operation	0...55 °C/32...131 °F	0...55 °C/32...131 °F	0...45 °C/32...113 °F
	During storage	-20...60 °C/-4...140 °F		
<b>Vibration resistance</b>	During operation	1 g from 5...500 Hz with HDD		
<b>Standards and certifications</b>		CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC (8), CCC, FCC (part 15 EMC Class A)		
<b>HMI Software</b>	Vijeo XD (3)	–	Yes	Yes
	Vijeo Citect (4)	–	Yes	–
<b>References</b>		<b>HMIPSP0752D1001</b>	<b>HMIPSPS752D1801</b>	<b>HMIPSPH752D1801</b>
<b>Pages</b>		2/6		

(1) See accessories (page 2/7) for additional ports through Mini PCIe and optional interface.  
 (2) 8 GB DDR3 RAM is not user extendable.  
 (3) Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.  
 (4) Vijeo Citect DVD is only for installation. Software activation license to be ordered separately.  
 (5) Win 8.1 requires user activation.  
 (6) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

#### Type

##### Simple panel PC Performance range - 15" touch screen

##### Simple panel PC Performance range - 19" touch screen



<b>Screen</b>	Type	15" wide LCD 5 point capacitive multi-touch LED screen			19" wide LCD 5 point capacitive multi-touch LED screen		
	Size	15.6" wide			18.5" wide		
	Resolution	HD WFXGA 1366 x 768, 16.7 million colors			HD WFXGA 1366 x 768, 16.7 million colors		
	Degree of protection	IP 66, Nema 4X indoor, 7H hardness and anti-scratch front panels			IP 66, Nema 4X indoor, 7H hardness and anti-scratch front panels		
	View angle	Vertical 160°, horizontal 170°			Vertical 160°, horizontal 170°		
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F			Life span > 50,000 hrs @ 25 °C/77 °F		
<b>CPU</b>	Processor	Intel i3-4010U dual-core (1.7 GHz) iCore 4 <sup>th</sup> generation (low power fanless)			Intel i3-4010U dual-core (1.7 GHz) iCore 4 <sup>th</sup> generation (low power fanless)		
	Expansion slot	1 Mini PCI Express full size slot with 1 optional interface slot (1)			1 Mini PCI Express full size slot with 1 optional interface slot (1)		
	Default storage drive	CFAST card ≥ 16 GB	–	SSD flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7	CFAST card ≥ 16 GB	–
	Storage drive slots	1 CFAST slot 1 x 2.5" SATA HDD/SSD storage slot, user accessible			1 CFAST slot 1 x 2.5" SATA HDD/SSD storage slot, user accessible		
	RAM (2)	8 GB DDR3			8 GB DDR3		
	Integrated ports	2 Ethernet 10/100/1000 Mbps (Eth1 supports AMT (active management technology)) 2 USB 3.0 1 RS-232, 1 RS-232C/422/485 1 HDMI port 1 Audio out 3 SMA connectors for the external antennas			2 Ethernet 10/100/1000 Mbps (Eth1 supports AMT (active management technology)) 2 USB 3.0 1 RS-232, 1 RS-232C/422/485 1 HDMI port 1 Audio out 3 SMA connectors for the external antennas		
<b>Operating system</b>		WES 7 Premium SP1 (64-bit) (7)	–	Win 8.1 Industry (64-bit Multi-language) (5)	–	WES 7 Premium SP1 (64-bit) (7)	–
<b>Power supply</b>	Supply voltage	24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYSPMAC1.			24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYSPMAC1.		
	Power consumption	18 W typical, 60 W max.	28 W typical, 60 W max.	18 W typical, 60 W max.	28 W typical, 60 W max.	18 W typical, 60 W max.	28 W typical, 60 W max.
<b>Dimensions</b>	Overall (W x H x D)	419.7 x 269 x 56.7 mm (16.52 x 10.59 x 2.23 in.)			488 x 411.6 x 56.7 mm (19.21 x 16.20 x 2.23 in.)		
	Mounting cut-out (W x H) with Snap hook (6)	412.4 x 261.7 mm (16.24 x 10.30 in.)			479.3 x 300.3 mm (18.87 x 11.82 in.)		
<b>Temperature</b>	During operation	0...55 °C/32...131 °F	0...55 °C/32...131 °F	0...55 °C/32...131 °F	0...45 °C/32...113 °F	0...55 °C/32...131 °F	0...55 °C/32...131 °F
	During storage	-20...60 °C/-4...140 °F			-20...60 °C/-4...140 °F		
<b>Vibration resistance</b>	During operation	1 g from 5...500 Hz with HDD			1 g from 5...500 Hz with HDD		
<b>Standards and certifications</b>		CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC (8), CCC, FCC (part 15 EMC Class A)			CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC (8), CCC, FCC (part 15 EMC Class A)		
<b>HMI Software</b>	Vijeo XD (3)	–	–	Yes	Yes	–	–
	Vijeo Citect (4)	–	–	Yes	–	–	–
<b>References</b>		<b>HMIPSPC752D1W01</b>	<b>HMIPSP0952D1001</b>	<b>HMIPSPS952D1801</b>	<b>HMIPSPH952D1801</b>	<b>HMIPSPC952D1W01</b>	–
<b>Pages</b>		2/6	2/7	2/6	2/7	2/6	2/7

(7) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 (8) EAC certification will be available in 4th quarter, 2015.

# Industrial PCs

Magelis™ iPCs for automation

Magelis HMIPSP S-Panel PC

Performance range with 15" and 19" touch screens

2



Magelis S-Panel PC 15" and 19"

## Presentation

Magelis HMIPSP S-Panel PCs are performance PCs with a simple all-in-one design. These 15"/19" wide PCs with a high-resolution display and multi-touch features enhance the user experience. The i3 Intel Core CPU 4<sup>th</sup> generation processor without rotating fan provides good performance for a wide range of software. They are mainly used in repetitive machines and infrastructure applications.

Magelis S-Panel PCs offer increased application and operator efficiency with:

- Wide HD TFT screens with 16 M colors and capacitive multi-touch technology
- LED backlight and IP 66 protection including anti-scratch front
- Slim panels with depth < 57 mm/2.24 in.
- Maintenance-free non-rotating parts and operation up to +55 °C (or up to +45 °C for models with HDD)
- Integration of software applications such as HMI Vijeo XD software, Vijeo Citect, SCADA, and third-party Windows software
- Expansions with optional interfaces based on Mini PCIe (Com, USB, audio, networks, etc.)
- Available with WES 7, Windows 8.1 or without an operating system
- Configurations on request for more option capabilities, for example, configuration for Windows 7 operating system

## Overview of the range

### Magelis HMIPSP Performance range

Magelis HMIPSP Performance PCs with 15" and 19" wide multi-touch screens are equipped with a fanless Intel® i3-4010U Dual core processor (1.7 GHz) and DDR3 RAM.

This range, with 8 reference models, provides:

- 8 GB DDR3 RAM, default mounted
  - Connection ports: 2 USB 3.0, 2 COM (RS-232,RS-232/422/485), 2 Gigabit Ethernet, 1 HD audio port, 1 HDMI video port and 3 SMAs for antennas
  - Expansion: 1 mini PCI Express® full slot with 1 optional interface slot
  - Power supply: 24 V DC. AC power supply with external AC/DC power adapter
- HMIYPSMAC1**

The operating systems and storage devices for 15" and 19" touch screens are:

- **HMIPSPC752D1W01** and **HMIPSPC952D1W01**:
  - Operating system: WES 7 Premium SP1 (64-bit)
  - Default storage device: 16 GB CFAST card
- **HMIPSPS752D1801** and **HMIPSPS952D1801**:
  - Operating system: Windows 8.1 Industry SP1 (64-bit English Multi-language)
  - Default storage device: 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF)
- **HMIPSPH752D1801** and **HMIPSPH952D1801**:
  - Operating system: Windows 8.1 Industry SP1 (64-bit English Multi-language)
  - Default storage device: 500 GB HDD (Enterprise 24/7)
- **HMIPSP0752D1001** and **HMIPSP0952D1001**:
  - Operating system: No
  - Default storage device: No
- Windows 7 SP1 Ultimate operating system (64-bit English Multi-language) is available with Magelis iPC Configured To Order (see page 2/9)

### HMI software support for Magelis HMIPSP

Magelis S-Panel PCs are supported by Schneider Electric HMI software for automation. Vijeo XD Run Time is readily available and can be downloaded in Magelis S-Panel PCs as a demo version. This can be upgraded to the unlimited version with an additional **HMIRTM CZLSPAZZ** license.

Vijeo Citect SCADA software can run on Magelis HMIPSP with a SSD disk drive. This can be installed from the Vijeo Citect DVD supplied with the Magelis HMIPSP product.

For more information on Vijeo XD HMI software or Vijeo Citect SCADA software, please refer to our website [www.schneider-electric.com/HMI Configuration Software](http://www.schneider-electric.com/HMI Configuration Software).



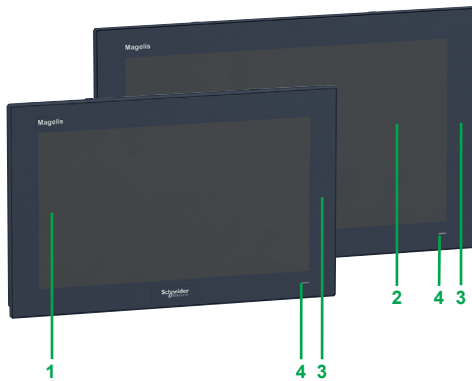
## Description

# Industrial PCs

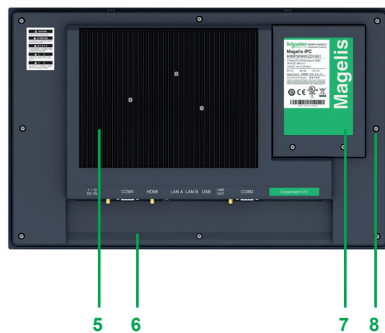
Magelis iPCs for automation

Magelis HMIPSP S-Panel PC

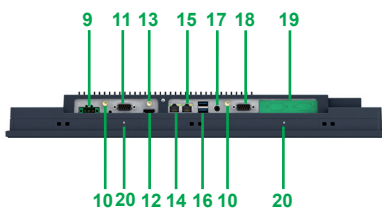
Performance range with 15" and 19" touch screens



15" and 19" front panels



Rear panel



Underside

### Description

#### Magelis HMIPSP Performance: 15" and 19"

##### Front panels

- 15" LCD Multi-touch LED screen, HD WFXGA 1366 x 768, 16 M colors for **HMIPSP●752D1●●●**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5 point capacitive multi-touch
  - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 19" LCD Multi-touch LED screen, HD WFXGA 1366 x 768, 16 M colors for **HMIPSP●952D1●●●**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5 point capacitive multi-touch
  - Typical viewing angle: 160° (vertically)/170° (horizontally)
- Panel
- Power Status indicator (Blue: On, Orange: Stand-by, No light: Off)

##### Rear panel

- Heat sink
- S-Panel PC interface
- S-Panel PC cover for storage drives (2.5" SATA HDD/SSD, CFast)
- S-Panel PC rear access to mini PCIe and internal connector for optional interfaces

##### Underside

- DC power connector
- SMA connector for the external antenna (1)
- 1 COM1, RS-232 port
- 1 HDMI
- SMA connector for the external antenna
- 1 Eth1 (10/100/1000 Mbps) supports AMT (active management technology)
- 1 Eth2 (10/100/1000 Mbps)
- 1 USB1 (USB 3.0) and 1 USB2 (USB 3.0)
- 1 Audio Line out
- 1 COM2, RS-232/422/485 port
- 1 optional interface
- Snap hook (2)

(1) Use an extension cable to connect the external antenna when the HDMI cable is connected.  
(2) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

# Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PC

Performance range with 15" and 19" touch screens

2



HMIPSPH752D1801

Magelis HMIPSP Performance: 15" Multi-touch screen (Intel i3-4010U Dual core processor, 1.7 GHz)						
Supply voltage	Operating system (1)	Software	Storage	DDR3 RAM (5)	Reference	Weight kg/lb
24 V ~ (6) 1 mini PCI Express slot	WES 7 Premium SP1 (64-bit En MUI) (1) (2)	Vijeo XD RT Demo (3)	CFast card ≥ 16 GB	8 GB	<b>HMIPSPC752D1W01</b>	6.00/ 13.23
		Windows 8.1 Industry SP1 (64-bit En MUI)	Vijeo XD RT Demo (3), Vijeo Citect DVD(4)	SSD flash disk ≥ 80 GB with 2 million hours MTBF	8 GB	<b>HMIPSPS752D1801</b>
		Vijeo XD RT Demo (3)	HDD hard disk ≥ 500 GB	8 GB	<b>HMIPSPH752D1801</b>	6.00/ 13.23
				8 GB	<b>HMIPSP0752D1001</b>	6.00/ 13.23



HMIPSPH952D1801

Magelis HMIPSP Performance: 19" Multi-touch screen (Intel i3-4010U Dual core processor, 1.7 GHz)						
Supply voltage	Operating system (1)	Software	Storage	DDR3 RAM(5)	Reference	Weight kg/lb
24 V ~ (6) 1 mini PCI Express slot	WES 7 Premium SP1 (64-bit En MUI)(1) (2)	Vijeo XD RT Demo (3)	CFast card ≥ 16 GB	8 GB	<b>HMIPSPC952D1W01</b>	7.00/ 15.43
		Windows 8.1 Industry SP1 (64-bit En MUI)	Vijeo XD RT Demo (3), Vijeo Citect DVD (4)	SSD flash disk ≥ 80 GB with 2 million hours MTBF	8 GB	<b>HMIPSPS952D1801</b>
		Vijeo XD RT Demo (3)	HDD hard disk ≥ 500 GB	8 GB	<b>HMIPSPH952D1801</b>	7.00/ 15.43
				8 GB	<b>HMIPSP0952D1001</b>	7.00/ 15.43



HMIPSPH752D1801



HMIPSPH952D1801

(1) Windows 7 SP1 Ultimate 64-bit English Multi-language operating system is available with Configured To Order : Magelis HMIPSP (see page 2/9).  
 (2) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 (3) Vijeo XD Run Time Demo to be installed which can be activated for unlimited license by HMIRTCZLSPAZZ.  
 (4) Vijeo Citect DVD is only used for installation. Software activation license has to be ordered separately.  
 (5) 8 GB DDR3 RAM is not user expandable.  
 (6) AC power supply with external AC/DC power adapter HMIYSPMAC1.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPSP S-Panel PC

#### Separate components

PF143569A



HMIYMINNVRAM1

PF143570C



HMIYMINSL24851

PF143576A



HMIYMINCAN1

PF5139E1



+



+



HMIYMINIO1

### Separate components

Description	Details	Compatible with Magelis HMIPSP Performance	Reference	Weight kg/lb
<b>Storage disks, peripheral equipment</b>				
<b>CFast card</b>	16 GB MLC, blank	All models	HMIYCFA16S	—
<b>Blank SSD with mounting screws</b>	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS080S1	—
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS160S1	—
	240 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS240S1	—
<b>Blank HDD</b>	Spare 1 TB HDD, blank	All models	HMIYHDD01T21	—
	Spare 500 GB HDD, blank	All models	HMIYHDD50021	—
<b>NVRAM interface</b>	Mini PCIe with non-volatile RAM, without external connectors	All models	HMIYMINNVRAM1	—
<b>2 RS-422/485 isolated interface</b>	Mini PCIe with 2 RS-422/485, isolated external interface with connectors	All models	HMIYMINSL24851	—
<b>4 RS-422/485 interface</b>	Mini PCIe with 4 RS-422/485, external interface with connectors	All models	HMIYMINSL44851	—
<b>2 RS-232 isolated interface</b>	Mini PCIe with 2 RS-232, isolated external interface with connectors	All models	HMIYMINSL22321	—
<b>4 RS-232 interface</b>	Mini PCIe with 4 RS-232, external interface with connectors	All models	HMIYMINSL42321	—
<b>1 Profibus DP Master NVRAM interface</b>	Mini PCIe with 1 Profibus DP Master, non-volatile RAM, external interface with connectors	All models	HMIYMINPRO1	—
<b>2 CanOpen/CanBus interface</b>	Mini PCIe with 2 Can fieldbus, external interface with connectors, drivers for CanOpen and CanBus	All models	HMIYMINCAN1	—
<b>16DI/8DO interface</b>	Mini PCIe with 16DI/8DO, external interface with connectors, 2 m/6.56 ft cable and Din rail wiring terminal	All models	HMIYMINIO1	—

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPSP S-Panel PC

#### Separate components

Separate components				
Description	Details	Compatible with Magelis S-Panel PC ranges Performance	Reference	Weight kg/lb
<b>Storage disks, peripheral equipment</b>				
<b>Maintenance kit for HMIPSP PCs</b>	Includes: <ul style="list-style-type: none"> <li>■ Screws and dampers for HDD/SSD</li> <li>■ Screws and clamps for panel mounting</li> <li>■ Power connector and sticker</li> <li>■ CFast card pull-out</li> <li>■ Rubbers for 15" and 19" mounting</li> <li>■ Bracket, screws and dampers for Mini PCIe</li> </ul>	All models	<b>HMIYPMKTPSP1</b>	–
<b>Removable protective sheet</b>	Set of 5 protective sheets	All models	<b>HMIYP752PS11</b>	–
	Set of 5 protective sheets	All models	<b>HMIYP952PS11</b>	–
<b>USB Key blank for iPC recovery</b>	Spare USB memory key blank(1)	All models	<b>HMIYUSBBK111</b>	–
<b>AC/DC power adapter 110/220 V ~ to 24 V ---</b>	AC/DC power adapter, provided with US and Europe power cord	All models	<b>HMIYPSPMAC1</b>	–
<b>Software</b>				
<b>Vijeo XD Run Time license</b>	Converts the 21-day trial version of Vijeo XD Run Time Demo to an unlimited license.	HMIPSPC952D1W01 HMIPSPH952D1801 HMIPSPC752D1W01 HMIPSPH752D1801	<b>HMIRTM CZLSPAZZ</b>	–

(1) USB key including restore image for recovery is supplied with each HMIPSP unit. The spare blank key is only necessary if the default key supplied with the unit is lost.

**Configured To Order: Magelis HMIPSP**

"Configured To Order" industrial PCs offer a vast number of configuration combinations for Magelis iPCs with certifications.

The Schneider Electric Customer Care Center can help you configure the right Magelis iPC based on your automation application and provide a quotation. A web configurator <http://www.hmisource.com/WWIPCC/npdetail.asp> is also available to help you easily build the configuration by yourself (password = Magelis).

Our Customer Care Center or the Web configurator will provide:

- The complete parts list for the configured Magelis S-Panel PC
- A configuration code that will be the part number of the Magelis iPC
- An XML file describing the selected configuration that will be directly uploaded with the order in the Schneider Electric ordering system, avoiding any manual operation errors

**Ordering procedure for a configured Magelis Panel PC**

If you have built your Magelis iPC configuration with the Web Configurator:

- 1 Please forward the email received from the Web Configurator to our Customer Care Center. This email contains a PDF file with your configuration description, code part number, and the XML file (to be uploaded directly to the Schneider Electric ordering system).
- 2 If required, specify the reference root part number GCR\_HMIPCCS2.

If you cannot access the Magelis iPC Web Configurator:

- 3 Please contact our Customer Care Center and state the reference root part number GCR\_HMIPCCS2.
- 4 Configure your Magelis Panel PC (see table below) and get your quote with the support of our Customer Care Center.
- 5 Confirm your order.

**Configured To Order options for Magelis HMIPSP S-Panel PC**

Option	Description
<b>Panel PC</b>	S-Panel PC Performance DC 8 GB RAM W15" - WHD
	S-Panel PC Performance DC 8 GB RAM W19" - WHD
<b>Fanless CPU ULV</b>	Performance Core i3-4010U
<b>Power Supply</b>	DC (1)
<b>Windows Operating System</b>	None
	WES7 Premium SP1 64-bit English Multi-language
	Win7 Ultimate FES SP1 64-bit English Multi-language
	Win 8.1 Industry 64-bit English Multi-language
<b>Main Storage device for Operating System</b>	None
	CFast 16 GB
	HDD 500 GB
	HDD 1 TB
	SSD 80 GB
	SSD 160 GB
	SSD 240 GB
<b>Optional interfaces (pre-mounted)</b>	None
	NVRAM
	2 RS422/485 Isolated
	4 RS422/485
	2 RS232 Isolated
	4 RS232
	16 DI/8 DO
	2 CanOpen CanBus
	Profibus DP Master with NVRAM
	Software bundle
	Vijeo XD Run Time unlimited license

(1) AC power supply with external AC/DC power adapter HMIYSPMAC1.

## Magelis HMIP Panel PC Optimum range

*Selection guide of Optimum range with 10.4" and 15" touch screens* ..... page 3/2

### ■ Presentation

- Overview of the range
  - Magelis HMIP Optimum..... page 3/4
  - Made-to-order Magelis HMIP Optimum ..... page 3/4

### ■ Description

- Magelis HMIP Optimum: 10.4" (Aluminum bezel) and 15" (Aluminum or Stainless steel bezel)
  - Front panels ..... page 3/4
  - Common rear panel ..... page 3/4
  - Common underside ..... page 3/4

### ■ References

- Magelis HMIP Optimum: 10.4" and 15" LCD TFT LED touch screens ..... page 3/5

## Magelis HMIP Panel PC Universal and Performance ranges

*Selection guide of Magelis HMIP Universal and Performance ranges with 12" touch screen* ..... page 3/6

### ■ Presentation

- Overview of the range
  - Magelis HMIP Universal with 12" touch screen..... page 3/8
  - Magelis HMIP Performance with 12" touch screen ..... page 3/9
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### ■ Description

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- Magelis HMIP Universal and Performance: 12", without expansion slots module ..... page 3/10
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### ■ References

- Magelis HMIP Universal: 12" LCD TFT LED touch screen ..... page 3/13
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  - Magelis HMIP Universal with 15" and 19" touch screens ..... page 3/18
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### ■ Description

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- Magelis HMIP Universal and Performance: 15" and 19", no PCI slot ..... page 3/21
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■ **References**

- Magelis HMIP Universal: 15" LCD TFT LED touch screen ..... *page 3/22*
- Magelis HMIP Performance: 15" LCD TFT LED touch screen..... *page 3/23*
- Magelis HMIP Universal: 19" LCD TFT LED touch screen ..... *page 3/24*
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- **Separate components for Magelis HMIP with 12" touch screen** ..... *page 3/26*

- **Separate components for Magelis HMIP Optimum, Universal and Performance ranges** ..... *page 3/27*

■ **Substitution**

- Configured Magelis HMIP ..... *page 3/29*
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# Industrial PCs

Magelis iPCs for automation  
Magelis HMIP Panel PC  
Optimum range with 10.4" and 15" touch screens

Type	Optimum range - 10.4" touch screen
Industrial environments	Maintenance-free (with Aluminum front panel bezel)



<b>Fanless</b>		★★★★★
<b>Non-rotative storage drive</b>		★★★★★
<b>Screen</b>	Type	10.4" LCD TFT LED touch screen
	Definition	SVGA 800 x 600, 16 M colors
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door
	Front panel bezel material	Aluminum
<b>CPU</b>	Processor	Intel®ATOM™ Z510 (1.1 GHz)
	Operating system storage	Compact Flash card ≥ 2 GB (SLC technology) Compact Flash card ≥ 4 GB (SLC technology)
	User storage	Integrated SD card reader
	RAM (1)	1 GB 2 GB
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 2 USB 2.0 (1 A) on the underside 1 RS-232C
	<b>Operating system</b>	
<b>Supply voltage</b>	Voltage	24 V $\pm$ 25 %
	Current	Nominal current 1.9 A Typical inrush current 3 A, 50 A < 300 $\mu$ s
<b>Overall dimensions (W x H x D)/Cut-out (W x H)</b>		323 x 260 x 72 mm/303 x 243 mm (12.72 x 10.24 x 2.83 in./11.93 x 9.57 in.)
<b>Temperature</b>	During operation	0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508
<b>Vibration resistance during operation</b>	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (2)
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (2)
	Merchant navy IACS E10	-
<b>Shock resistance</b>	during operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea
<b>Standards and certifications</b>		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST
<b>Marine certification</b>	Germanischer Lloyd (Bridge Class)	Requires additional power supply filter HMIYLFIMAR11.
<b>ATEX certification</b>		-
<b>Software</b>		<input type="checkbox"/> Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser. <input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version (3). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect Web Client.
<b>References of Aluminum bezel versions</b>	With Vijeo Designer RT Demo, 21-day version (3)	<b>HMIPWC5D0E01</b> <b>HMIPWC5D0E01A</b>
<b>References of Stainless steel bezel versions</b>	With Vijeo Designer RT Demo, 21-day version (3)	-
<b>Pages</b>		3/5
<b>Made-to-order configuration</b>		See configured Magelis Panel PC on page 3/27

(1) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/27).  
 (2) Conforming to IEC 60068-2-6 Fc.  
 (3) Unlimited license, to be ordered separately (VJDSNRTMPC).

Type	Optimum range - 15" touch screen
Industrial environments	Maintenance-free (with Aluminum or Stainless steel front panel bezel)



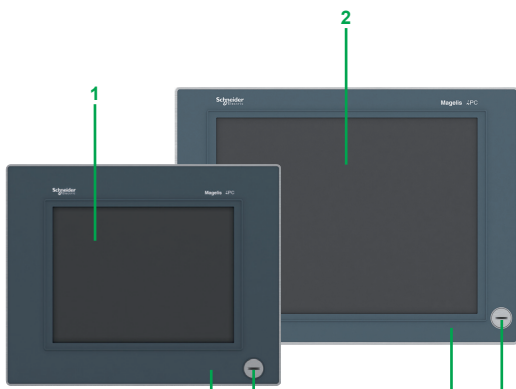
<b>Fanless</b>		★★★★★
<b>Non-rotative storage drive</b>		★★★★★
<b>Screen</b>	Type	15" LCD TFT LED touch screen
	Definition	XGA 1024 x 768, 16 M colors
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door
	Front panel bezel material	Aluminum or Stainless steel
<b>CPU</b>	Processor	Intel ATOM Z510 (1.1 GHz)
	Operating system storage	Compact Flash card ≥ 2 GB (SLC technology)
	User storage	Integrated SD card reader
	RAM (1)	1 GB
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 2 USB 2.0 (1 A) at the bottom 1 RS-232C
	<b>Operating system</b>	
<b>Supply voltage</b>	Voltage	24 V $\pm$ 25 %
	Current	Nominal current 1.9 A Typical inrush current 3 A, 50 A < 300 $\mu$ s
<b>Overall dimensions (W x H x D)/Cut-out (W x H)</b>		402 x 301 x 72 mm/ 383.5 x 282.5 mm (15.83 x 11.85 x 2.83 in./15.10 x 11.12 in.)
<b>Temperature</b>	During operation	0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508
<b>Vibration resistance during operation</b>	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (2)
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (2)
	Merchant navy IACS E10	1 mm/0.04 in. from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance
<b>Shock resistance</b>	during operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea
<b>Standards and certifications</b>		<input type="checkbox"/> CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 No. 213), C-Tick, GOST <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only) Requires additional power supply filter HMIYLFIMAR11 (Aluminum bezel versions only).
<b>ATEX certification</b>		ATEX II 3 Gas and Dust zone 2/22 (Stainless steel bezel versions only)
<b>Software</b>		<input type="checkbox"/> Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser. <input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version (3). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo Citect Web Client.
<b>References of Aluminum bezel versions</b>	With Vijeo Designer RT Demo, 21-day version (3)	<b>HMIPWC7D0E01</b>
<b>References of Stainless steel bezel versions</b>	With Vijeo Designer RT Demo, 21-day version (3)	<b>HMIPVC7D0E01</b>
<b>Pages</b>		3/5
<b>Made-to-order configuration</b>		See configured Magelis Panel PC on page 3/27

(1) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/27).  
 (2) Conforming to IEC 60068-2-6 Fc.  
 (3) Unlimited license, to be ordered separately (VJDSNRTMPC).

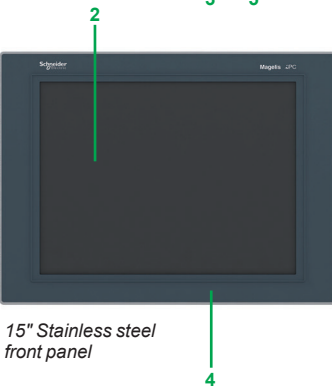




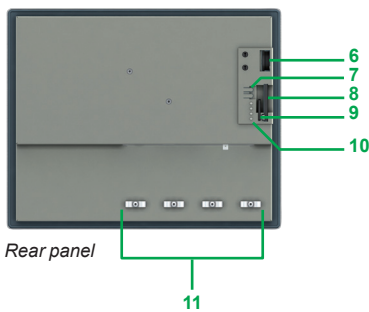
10.4" and 15" Magelis HMIP Panel PCs



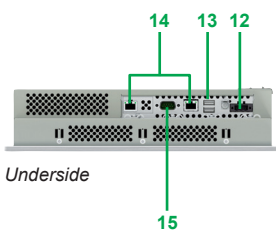
10.4" and 15" Aluminum front panels



15" Stainless steel front panel



Rear panel



Underside

### Presentation

The Magelis HMIP Panel PC Optimum range offers products that are rugged and certified for automation applications. These optimized products also feature compact dimensions, particularly in terms of depth.

HMIPs are specifically designed for use in maintenance-free environments and can be easily integrated into IT systems. They are available in aluminum and stainless steel front panel bezel versions.

### Overview of the range

#### Magelis HMIP Optimum

Magelis HMIP Optimum is equipped with a fanless Intel® ATOM™ Z510 processor (1.1 GHz) and DDR2 RAM (1). This range is available with a 10.4" or 15" LCD TFT LED touch screen of 16 M colors, with a solid-state storage disk:

- **HMIPWC5D0E01, HMIPWC5D0E01A and HMIPWC7D0E01:**
  - IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door
  - Compact Flash card (operating system)/integrated SD card reader (user data)/ Windows® Embedded Standard 2009/24 V --- power supply.

#### Made-to-order Magelis HMIP Optimum

On Magelis HMIP Optimum bases, the CPU can be customized by selecting the RAM and Compact Flash card capacity. For more information on the HMIPCCW offer, see page 3/29.

### Description

#### Magelis HMIP Optimum: 10.4" (Aluminum bezel) and 15" (Aluminum or stainless steel bezel)

##### Front panels

- 1 10.4" LCD TFT LED touch screen (SVGA 800 x 600) with 16 M colors for **HMIPWC5D0E01** and **HMIPWC5D0E01A:**
    - Brightness: 450 cd/m<sup>2</sup> (adjustable)
    - Type of touch panel: Analog resistive film, resolution 4096 x 4096
    - Typical viewing angle: 120° (vertically)/160° (horizontally)
  - 2 15" LCD TFT LED touch screen (XGA 1024 x 768) with 16 M colors for **HMIPWC7D0E01:**
    - Brightness: 350 cd/m<sup>2</sup> (adjustable)
    - Type of touch panel: Analog resistive film, resolution 4096 x 4096
    - Typical viewing angle: 100° (vertically)/160° (horizontally)
  - 3 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
    - Mounted on 1.6...10 mm/0.063...0.394 in. thick support using the supplied screw fasteners (2)
- or
- 4 Stainless steel 304 "Scotch Brite®" brushed finish front panel providing IP 65 and Nema 4X indoor degree of protection when mounted on a panel or an enclosure door:
    - Mounted on 1.6...10 mm/0.063...0.394 in. thick support using stainless steel screw fasteners supplied (2).
    - Simplifies cleaning because of the absence of a USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2).
    - The front panel is fitted with special seals (standard FDA 21 CFR 177.206).
  - 5 USB 2.0 port (1 A max.) with screw-on protective cover (only available for Aluminum version):
    - Captive protective cover option also available (3)

##### Common rear panel

- 6 Battery
- 7 2 pushbuttons: 1 for power supply and 1 for resetting
- 8 Compact Flash card (SLC technology) ≥ 2 or 4 GB specifically for the operating system
- 9 SD card reader for user data - SD card optional (3)
- 10 4 status and power supply LEDs
- 11 Cable clamps

##### Common underside

- 12 24 V ---/1.9 A power supply connector
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 Ethernet 10/100/1000 Mbps ports
- 15 1 RS-232C port

(1) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).  
 (2) For installation, please refer to product data sheets of respective product references.  
 (3) To be ordered separately (see page 3/26).

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC Optimum range

**Magelis HMIP Optimum: 10.4" and 15" LCD TFT LED touch screens (1)**  
**Intel ATOM Z510 processor (1.1 GHz)/DDR2 RAM/24 V --- supply voltage (2)**

Screen type	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg/lb
<b>For maintenance-free environment (with Aluminum front panel bezel)</b>						
<b>10.4" LCD TFT LED touch screen</b> SVGA 800 x 600, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	<b>HMIPWC5D0E01</b>	4.400/ 9.700
	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 4 GB User: 1 SD memory card reader (card available separately)	2 GB	<b>HMIPWC5D0E01A</b>	4.400/ 9.700
<b>15" LCD TFT LED touch screen</b> XGA 1024 x 768, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	<b>HMIPWC7D0E01</b>	6.100/ 13.449
	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	<b>HMIPVC7D0E01</b>	6.300/ 13.889

**For maintenance-free environment (with Stainless steel front panel bezel)**

<b>15" LCD TFT LED touch screen</b> XGA 1024 x 768, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	<b>HMIPVC7D0E01</b>	6.300/ 13.889
	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	<b>HMIPVC7D0E01</b>	6.300/ 13.889



HMIPWC5D0E01 (screen side)



HMIPWC7D0E01 (screen side)



HMIPWC-D0E01 (CPU side)

(1) For separate components, software and external power supply, see page 3/26.  
 (2) For an ~ supply voltage, an external Phaseo power supply can be used (see page 3/26).  
 (3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).  
 (4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Acrobat Reader, Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 - Vijeo Citect Web Client  
 - Vijeo Designer Run Time Demo (5)  
 (5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/26). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.  
 (6) Requires Vijeo Designer software running on Magelis Panel PC.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal and Performance ranges with 12" touch screen

Type	Universal range - 12" touch screen
Industrial environments	Maintenance-free (with Aluminum bezel)



Fanless	★★★★★	★★★★★
Non-rotative storage drive	★★★★★	★★★★★
Screen	12" LCD TFT LED touch screen	
Type	XGA 1024 x 768, 16 M colors	
Definition	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
Degree of protection	Aluminum	
Front panel bezel material	-	
CPU (1)	Intel® iCore™ 827E low power	
Processor	-	
Fan	CFast card ≥ 4 GB (SLC technology)	
Default storage (user removable)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	
Storage slots (user accessible)	1 CFast + 1 Slide-in Compact	
RAM (16 GB max. in 2 slots)	2 GB in 1 slot, user extendable (1)	
Slots expansion module	(to be added by user) (1)	
Integrated DVD-RW drive	(to be added by user) (1)	
Integrated ports	2 Ethernet 10/100/1000 Mbps	
Optional ports	1 USB 2.0 (0.5 A) on the front panel + 4 USB 3.0 (1 A) at the bottom	
Optional internal RAID	2 RS-232C	
Operating system	Windows® Embedded Standard 2009	Windows 7 Ultimate 64-bit
Overall dimensions (W x H x D)/Cut-out (W x H)	313 x 239 x 60 mm / 302 x 228 mm (12.32 x 9.41 x 2.36 in. / 11.89 x 8.98 in.)	
Temperature	During operation: 0...50 °C / 32...122 °F, conforming to IEC 61132-2, UL 508	
Vibration resistance	Continuous: 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)	
during operation	Non-continuous: 3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)	
Shock resistance	Merchant navy IACS E10: 1 mm/0.04 in. amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	
Standards and certifications	15 g/11 ms conforming to IEC 60068-2-27 test Ea	
HMI Software	CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST	
References of Aluminum bezel versions	<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC) and requires additional SRAM interface HMIYPINSRAM61 (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.	
Pages	HMIPUC6D0E01	HMIPUF6D0701
Made-to-order configuration	HMIPUC6A0E01	HMIPUF6A0701
	3/13	
	See configured Magelis Panel PC on page 3/27	

(1) Other options (interface for backup battery, 3<sup>rd</sup> RS-232/422/485 port, SRAM, PCI/Express slots, extended RAM, etc.) to be installed by user or in made-to-order configuration (see page 3/27).  
 (2) Half size PCI 2.2 32-bit and half size PCI Express 1.0 8x 2 Gb/s.  
 (3) Conforming to IEC 60068-2-6 Fc.  
 (4) For DC, the AC module can be removed by the user.

Universal range - 12" touch screen	Performance range - 12" touch screen
Standard (with Aluminum bezel)	Maintenance-free (with Aluminum bezel) Standard (with Aluminum bezel)



★★★★★	★★★★★	-
-	★★★★★	-
12" LCD TFT LED touch screen	12" LCD TFT LED touch screen	
XGA 1024 x 768, 16 M colors	XGA 1024 x 768, 16 M colors	
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
Aluminum	Aluminum	
Intel iCore 827E low power	Intel i3 iCore 3217UE dual core low power	
1 (user exchangeable)	-	1 (user exchangeable)
Hard disk Enterprise 24/7 ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB
1 CFast + 1 Slide-in Compact	1 CFast + 1 Slide-in Compact + 1 slide-in (of Slots expansion module)	
2 GB in 1 slot, user extendable (1)	4 GB in 1 slot, user extendable (1)	
(to be added by user) (1)	1 PCI + 1 Express® + 1 slide-in (Slots expansion module removable by user) (2)	
(to be added by user) (1)	1 (in slide-in of Slots expansion module)	
2 Ethernet 10/100/1000 Mbps	2 Ethernet 10/100/1000 Mbps	
1 USB 2.0 (0.5 A) on the front panel + 4 USB 3.0 (1 A) at the bottom	1 USB 2.0 (0.5 A) on the front panel + 4 USB 3.0 (1 A) at the bottom	
2 RS-232C	2 RS-232C	
2 user accessible interface module slots (1)	2 user accessible interface module slots (1)	
-	Requires 2 HDD (1 for slide compact and 1 for slide-in of the expansion slots module)	
Windows 7 Ultimate 64-bit	Windows 7 Ultimate 64-bit	
313 x 239 x 60 mm / 302 x 228 mm (12.32 x 9.41 x 2.36 in. / 11.89 x 8.98 in.)	313 x 239 x 135 mm / 302 x 228 mm (12.32 x 9.41 x 5.31 in. / 11.89 x 8.98 in.)	
0...50 °C / 32...122 °F, conforming to IEC 61132-2, UL 508	0...50 °C / 32...122 °F, conforming to IEC 61132-2, UL 508	
0.125 g from 5...100 Hz	1.75 mm / 0.07 in. from 2...9 Hz, (3) 0.5 g from 9...200 Hz (2)	0.125 g from 5...100 Hz
0.250 g from 5...100 Hz	3.5 mm / 0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (2)	0.250 g from 5...100 Hz
-	-	
15 g/11 ms conforming to IEC 60068-2-27 test Ea	15 g/11 ms conforming to IEC 60068-2-27 test Ea	
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST	CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST	
	<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version and Unlimited license, to be ordered separately (VJDSNRTMPC) and requires additional SRAM interface HMIYPINSRAM61 (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.	
HMIPUH7D0P01	User removable AC module (4)	User removable AC module (4)
HMIPUH7A0P01	HMIPPF6A2701	HMIPPH6A2701
	See configured Magelis Panel PC on page 3/13	

(1) Other options (interface for backup battery, 3<sup>rd</sup> RS-232/422/485 port, SRAM, PCI/Express slots, extended RAM, etc.) to be installed by user or in made-to-order configuration (see page 3/27).  
 (2) Half size PCI 2.2 32-bit and half size PCI Express 1.0 8x 2 Gb/s.  
 (3) Conforming to IEC 60068-2-6 Fc.  
 (4) For DC, the AC module can be removed by the user.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal and Performance ranges with 12" touch screen



12" Magelis Universal Panel PC



12" Magelis Performance Panel PC

3

### Presentation

The Magelis HMIP Panel PC Universal and Performance ranges with 12" touch screen offer products that are rugged and certified for automation applications. They are suitable for various uses in the following environments:

- Maintenance-free
- Harsh
- Standard

The ultra-modular design of Panel PCs with 12" touch screen allows users to adapt the unit configuration. Main options such as an interface for backup battery, third RS-232/422/485 ports, SRAM, PCI/PCI Express® slots, expanded RAM, fan if any, and AC power module are all user-accessible. The 12" touch screen is an XGA LCD TFT LED 16 M color touch screen with IP 65 front panel protection when mounted on a panel or an enclosure door.

This modularity provides a complete and coherent offer. In addition, Magelis Panel PCs can be made-to-order (see page 3/27) or adapted by the user according to their present and future requirements.

HMIPs are equipped with powerful iCore CPUs that have extended graphic capabilities. When combined with aluminum die-cast housing technology, these low power consumption CPUs improve heat dissipation and enable fanless operations.

### Overview of the range

#### Magelis HMIP Universal with 12" touch screen (1)

The Magelis Panel PC Universal range with 12" touch screen is equipped with a low-power Intel iCore 827E and a user-expandable DDR3 RAM.

This range is designed for the following environments:

- Maintenance-free environment (fanless, with non-rotating storage drive):
  - **HMIPUC6D0E01** and **HMIPUC6A0E02**:
    - No default PCI/PCI Express slots, but an expansion slot module can be mounted by user
    - CFast card/Windows Embedded Standard 2009
    - 24 V  $\overline{\text{DC}}$  power supply or 100...240 V  $\sim$  power supply module pre-mounted
  - **HMIPUF6D0701** and **HMIPUF6A0701**:
    - No default PCI/PCI Express slots, but an expansion slot module can be mounted by the user
    - SSD flash disk/Windows 7 Ultimate 64-bit
    - 24 V  $\overline{\text{DC}}$  power supply or 100...240 V  $\sim$  power supply module pre-mounted
- Standard industrial environment (with hard disk):
  - **HMIPUH6D0701** and **HMIPUH6A0701**:
    - No default PCI/PCI Express slots, but an expansion slot module can be mounted by user
    - Hard disk/Windows 7 Ultimate 64-bit
    - 24 V  $\overline{\text{DC}}$  power supply or 100...240 V  $\sim$  power supply module pre-mounted

(1) For description, see pages 3/10 to 3/12.

#### Presentation (continued)

##### Overview of the range (continued)

##### Magelis HMIP Performance with 12" touch screen (1)

The Magelis HMIP Performance range with 12" touch screen is equipped with a low power Intel i3 iCore 3217UE and user-expandable DDR3 RAM.

This range is designed for the following environments:

- Maintenance-free environment (fanless, with non-rotating storage drive):
  - **HMIPPF6A2701**
    - 1 PCI + PCI Express (half-size PCI 2.2 32-bit and half-size PCI Express 1.0 8x 2 Gbps)
    - DVD-RW
    - SSD flash disk/Windows 7 Ultimate 64-bit
    - 100...240 V ~ power supply module pre-mounted (user-removable access to 24 V --- power supply)
- Standard industrial environment (with hard disk):
  - **HMIPPH6A2701:**
    - 1 PCI + PCI Express (half-size PCI 2.2 32-bit and half-size PCI Express 1.0 8x 2 Gbps)
    - DVD-RW
    - Hard disk/Windows 7 Ultimate 64-bit
    - 100...240 V ~ power supply module pre-mounted (user-removable access to 24 V --- power supply)

##### Made-to-order Magelis HMIP Universal and Performance ranges

On Magelis HMIP Universal and Performance bases, you can configure the units by selecting:

- the capacity of the Compact Flash cards, CFast cards, SSD flash disk and RAM
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional options: Internal RAID with 2 redundant hard disks, interface for backup battery, power supply module, third RS-485 port

For more information on the HMIPCC offer, see page 3/29.

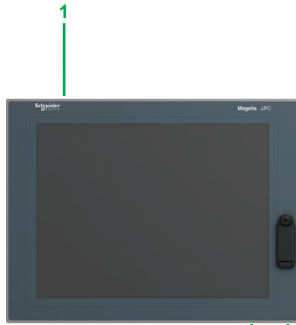
(1) For description, see pages 3/10 to 3/12.

# Industrial PCs

Magelis iPCs for automation

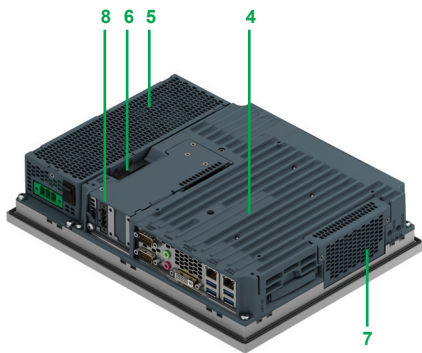
Magelis HMIP Panel PC

Universal and Performance ranges with 12" touch screen

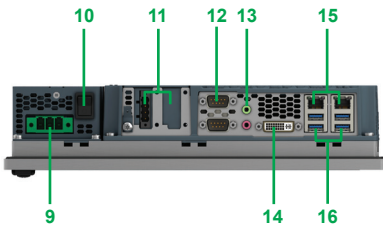


12" Aluminum front panel

2 3



Rear panel



Underside

## Description

### Magelis HMIP Universal and Performance: 12" (Aluminum bezel)

#### Front panel

- 1 12" LCD TFT LED touch screen, XGA 1024 x 768, 16 M colors for **HMIP●●6●●●●●●**:
  - Brightness: 500 cd/m<sup>2</sup> (stepless adjustable)
  - Type of touch panel: analog resistive film, 12-bit resolution
  - Typical viewing angle: 80° (vertically)/80° (horizontally)
  - LED life span > 50,000 hrs at 25 °C/77 °F
- 2 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
  - Mounted on 1.6...9 mm/0.06...0.34 in. thick support using the screw fasteners supplied (1)
- 3 USB 2.0 port (0.5 A max.) with screw-on captive protective cover

### Magelis HMIP Universal and Performance: 12", without expansion slot module

#### Rear panel

- 4 Aluminum die-cast housing for improved heat dissipation. This technology, combined with low-power iCore 3<sup>rd</sup> generation CPUs, allows fanless operations with static drives, up to 50 °C/122 °F environment (1)
- 5 AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6... 2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user-removable, or direct access to DC power connector for **HMI●●●6D●●●** (24 V --- +/-25 %, 130 W max.) (2)
- 6 User access to internal battery for backing up real-time clock (RTC) and BIOS settings
- 7 User access to 2 x DDR3 RAM slots and slide-in compact slot for storage drive
- 8 User access to mount interface modules and expansion modules **HMI●●●●●●** (3)

#### Underside

- 9 Connector for AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user removable, or direct access to DC power connector
- 10 On/Off switch for AC power module **HMIYPMAC61** pre-mounted on Panel PC 12" **HMI●●●6A●●●**
- 11 2 slots for interface modules with following restrictions:

Panel PC	Part number	Slot 1	Slot 2
UPS interface module (3)	<b>HMIYPUISINT61</b>	X	-
SRAM interface module (3)	<b>HMIYPINSRAM61</b>	-	X
RS-232/422/485 interface module (3)	<b>HMIYPINSL61</b>	X	X

- 12 2 RS-232C ports
- 13 Micro input, line input/line output
- 14 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (3)
- 15 2 Ethernet 10/100/1000 Mbps ports
- 16 4 USB 3.0 ports (1 A max.)

(1) For installation, please refer to product data sheets of respective product references.

(2) Consumption excluding additional PCI/PCI Express card.

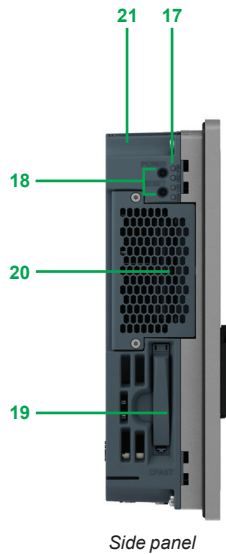
(3) To be ordered separately as an accessory (see pages 3/26 and 3/27).

# Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC

Universal and Performance ranges with  
12" touch screen



Side panel

## Description (continued)

**Magelis HMIP Universal and Performance: 12", without expansion slot module (continued)**

### Side panel

- 17** 4 status and power supply LEDs
- 18** 2 pushbuttons: 1 for power supply and 1 for resetting
- 19** Slot for CFAST card:
  - With CFAST card (SLC technology)  $\geq$  4 GB (Panel PC **HMIPUC●D0E01**)
  - Free slot (Panel PC **HMIP●●F6●0●●1**, **HMIP●H6●●0●●1**)
- 20** User access to the 2 DDR3 RAM slots expandable up to 16 GB and the slide-in compact slot for storage drive:
  - With 2 GB RAM in 1 slot (Panel PC **HMIPUC6●0E01**). Free slide-in compact slot can be used directly for an additional SSD flash disk, SSD hard disk or with adapter (**HMIYADCF61**) (1) for a second CFAST card
  - With 2 GB RAM in 1 slot + SSD flash disk  $\geq$  60 GB with 2 million hours MTBF (Panel PC **HMIPUF6●0701**)
  - With 2 GB RAM in 1 slot + Hard disk  $\geq$  500 GB (Panel PC **HMIPUF6●0701**)
- 21** User access to fan (Panel PC **HMIP●H6●●●●●●**) (2) or natural convection (Panel PC **HMIP●C6●●●●●●** and **HMIP●F6●●●●●●**)

(1) To be ordered separately as an accessory (see page 3/28).

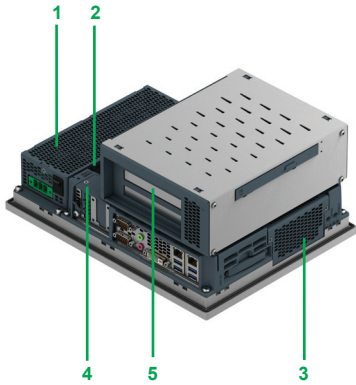
(2) User can add or replace fan, with fan kit **HMIYPFKT061** (to be ordered separately, see page 3/28).

# Industrial PCs

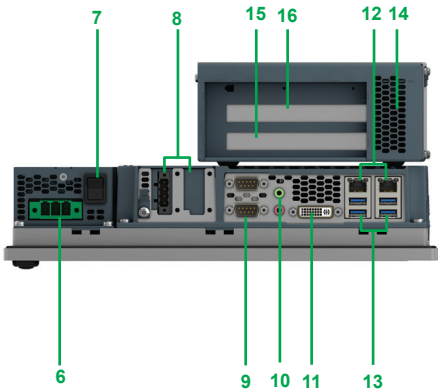
## Magelis iPCs for automation

### Magelis HMIP Panel PC

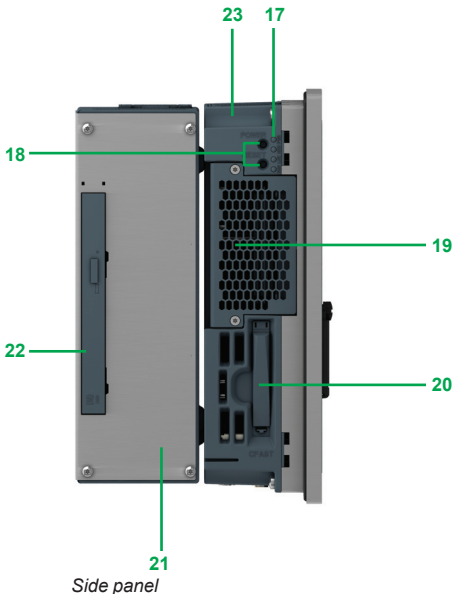
Universal and Performance ranges with 12" touch screen



Rear panel



Underside



Side panel

#### Description (continued)

#### Magelis HMIP Universal and Performance: 12", with expansion slots module

##### Rear panel

- 1 AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user-removable, or direct access to DC power connector (24 V  $\pm$  +/-25 %, 130 W max.) (2)
- 2 User access to internal battery, backing up real-time clock (RTC) and BIOS settings
- 3 User access to the 2x DDR3 RAM slots and the slide-in compact slot for storage drive
- 4 User access to interface module slots
- 5 Expansion slot module pre-mounted on Panel PC **HMIPP●6●2●●●**

##### Underside

- 6 Connector for AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●**, or direct access to DC power connector
- 7 On/Off switch for AC power module **HMIYPMAC61** pre-mounted on Panel PC 12" **HMI●●●6A●●●**
- 8 2 slots for interface modules with following restrictions:

Panel PC	Reference Number	Slot 1	Slot 2
UPS interface module (3)	<b>HMIYPUISINT61</b>	X	-
SRAM interface module (3)	<b>HMIYPINSRAM61</b>	-	X
RS-232/422/485 interface module (3)	<b>HMIYPINSL61</b>	X	X

- 9 2 RS-232C ports
- 10 Micro input, line input/line output
- 11 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (3)
- 12 2 Ethernet 10/100/1000 Mbps ports
- 13 4 USB 3.0 ports (1 A max.)
- 14 Expansion slot module (Panel PC **HMIPP●6A2701**)
- 15 Slot for half-size PCI Express 1.0 8x 2 Gbps
- 16 Slot for half-size PCI 2.2 32-bit

##### Side panel

- 17 4 status and power supply LEDs
- 18 2 pushbuttons: 1 for power supply and 1 for resetting
- 19 User access to 2x DDR3 RAM slots which are expandable up to 16 GB and slide-in compact slot for storage drive:
  - with 4 GB RAM in 1 slot + Hard disk  $\geq$  500 GB (Panel PC **HMIPPF6A2701**)
  - with 4 GB RAM in 1 slot + SSD flash disk  $\geq$  60 GB with 2 million hours MTBF (Panel PC **HMIPPH6A2701**)
- 20 Slot for CFast card:
  - Free slot (Panel PC **HMIPP●6●2●●1**)
- 21 Expansion slots module (Panel PC **HMIPP●6A2701**)
- 22 Slide-in slot with the DVD-RW drive included (4). This can be used for an additional storage disk with adapter (**HMIYADSLIDEIN61**) (3)
- 23 User access to fan (Panel PC **HMIP●H6●●●●●**) (5) or natural convection (Panel PC **HMIP●C6●●●●●** and **HMIP●F6●●●●●**)

(1) For installation, please refer to the "user manual" on our website [www.schneider-electric.com/HMI/IndustrialPCandDisplay](http://www.schneider-electric.com/HMI/IndustrialPCandDisplay).

(2) Consumption excluding additional PCI/PCI Express card.

(3) To be ordered separately as an accessory (see pages 3/26 and 3/27).

(4) Operating temperature details available on our website [www.schneider-electric.com/HMI/IndustrialPCandDisplay](http://www.schneider-electric.com/HMI/IndustrialPCandDisplay).

(5) User can add or replace fan, with fan kit **HMIYPFKT061** (to be ordered separately, see page 3/26).

(6) SRAM interface modules must be installed to run Vijeo Designer RT software.



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal and Performance ranges with 12" touch screen



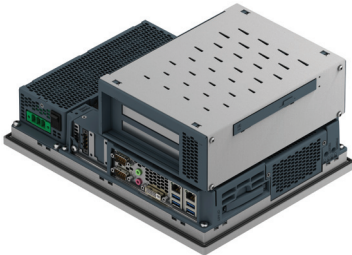
HMIPU6A0001  
(Screen side)



HMIPU6A0001  
(Rear side)



HMIPP6A2701  
(Screen side)



HMIPP6A2701  
(Rear side)

### Magelis HMIP Universal: 12" LCD TFT LED touch screen (1) (2)

#### Intel iCore 827E low power

Supply voltage (6) PCI slot	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg/lb
<b>For maintenance-free environment</b>						
24 V --- No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	CFast card ≥ 4 GB (SLC technology)	2 GB in 1 slot	HMIPUC6D0E01	4.000/ 8.818
240 V ~ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	CFast card ≥ 4 GB (SLC technology)	2 GB in 1 slot	HMIPUC6A0E01	4.000/ 8.818
24 V --- No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB in 1 slot	HMIPUF6D0701	4.000/ 8.818
240 V ~ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB in 1 slot	HMIPUF6A0701	4.000/ 8.818

#### For standard industrial environment

24 V --- No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB in 1 slot	HMIPUH6D0701	4.000/ 8.818
240 V ~ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB in 1 slot	HMIPUH6A0701	4.000/ 8.818

### Magelis HMIP Performance: 12" LCD TFT LED touch screen (1) (2)

#### Intel i3 iCore 3217UE dual-core low-power

Supply voltage (6) PCI slot	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg/lb
<b>For maintenance-free environment</b>						
240 V ~ 2 PCI/ PCI Express slots	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB in 1 slot	HMIPPF6A2701	4.200/ 9.259
<b>For standard industrial environment</b>						
240 V ~ 2 PCI/ PCI Express slots	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	4 GB in 1 slot	HMIPPH6A2701	4.200/ 9.259


- (1) 12" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.
- (2) For separate components and software, see page 3/27.
- (3) Memory capacity user-expandable up to 16 GB in 2 slots.
- (4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:
  - Acrobat Reader, Word/Excel/Power Point Viewer
  - Framework.Net 3.5
  - Web browser
  - Vijeo Citect Web Client
  - Vijeo Designer RT Demo (5)
- (5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) + requires additional SRAM interface HMIYPINSRAM61, see page 3/26. Vijeo XD RT Demo to be installed and activated with an unlimited license HMIRTMCZLSPAZZ.
- (6) AC models come with a removable AC to DC power module and the user can also mount additional AC power module HMIYPMAC61 in DC models, see page 3/26.

# Industrial PCs


## Magelis iPCs for automation

### Magelis HMIP Panel PC

Universal and Performance ranges with 15" touch screen

<b>Type</b>		<b>Universal range - 15" touch screen (no PCI slot)</b>		
<b>Industrial environments</b>		<b>Maintenance-free (with Aluminum bezel)</b>		<b>Standard (with Aluminum bezel)</b>
				
<b>Fanless</b>		★★★★★	★★★★★	★★★★★
<b>Non rotative storage drive</b>		★★★★★	★★★★★	—
<b>Screen</b>		15" LCD TFT LED touch screen		
Type		XGA 1024 x 768, 16 M colors		
Definition		IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door		
Degree of protection		Aluminum		
Front panel bezel material				
<b>CPU (1)</b>		Intel® ATOM™ N270 (1.6 GHz)		
Processor		—		
PCI slot		—		
Storage		Compact Flash card ≥ 4 GB (SLC technology)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB
RAM (2)		2 GB	2 GB	2 GB
Integrated DVD-RW drive		—		
Slide-in rack for peripheral device		1 slide-in compact rack for storage disk		
Integrated ports		2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top 2 RS-232C/1x DVI (VGA RGB adapter, optional)		
Optional ports		1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		
Optional RAID PCI card		—		
<b>Operating system</b>		Windows Embedded Standard 2009 Windows XP Professional SP3		
<b>Overall dimensions (W x H x D)/Cut-out (W x H)</b>		402 x 301 x 104 mm/383.5 x 282.5 mm (15.83 x 11.85 x 4.09 in./15.10 x 11.12 in.)		
<b>Temperature</b>		During operation 0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508		
<b>Vibration resistance</b>		Continuous 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc) 0.125 g from 5...100 Hz		
during operation		Non-continuous 3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc) 0.250 g from 5...100 Hz		
Merchant navy IACS E10		1 mm/0.04 in. amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance —		
<b>Shock resistance</b>		During operation 15 g/11 ms conforming to IEC 60068-2-27 test Ea		
<b>Standards and certifications</b>		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST		
<b>Marine certif.</b>		Germanischer Lloyd (Bridge Class) 24 V ~ only with additional power supply filter HMIYLFIMAR11 —		
<b>ATEX certification</b>		—		
<b>HMI Software</b>		<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.		
<b>References of Aluminum bezel versions (1)</b>		24 V ~	24 V ~	24 V ~
24 V ~		Vijeo Citect Lite 1200 I/O	—	—
24 V ~		Interface for battery	—	—
24 V ~		Vijeo Citect Full 500 I/O	—	—
100...240 V ~		—	—	—
100...240 V ~		Vijeo Citect Full 500 I/O	—	—
<b>References of Stainless steel bezel versions (1)</b>		24 V ~	24 V ~	24 V ~
100...240 V ~		—	—	—
<b>Pages</b>		3/22		
<b>Made-to-order configuration</b>		See configured Magelis Panel PC on page 3/29		

(1) Other options available (interface for backup battery, 3<sup>rd</sup> serial port, etc.) in made-to-order configuration (see page 3/26).  
 (2) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/26).

<b>Universal range (2 PCI slots)</b>		<b>Performance range (no PCI slot)</b>		<b>Performance range (2 PCI slots)</b>	
<b>Maintenance-free (with Aluminum or Stainless steel bezel)</b>		<b>Standard (with Aluminum or Stainless steel bezel)</b>		<b>Harsh (with Aluminum bezel)</b>	
					
<b>★★★★★</b>		<b>★★★★★</b>		<b>—</b>	
<b>★★★★★</b>		<b>—</b>		<b>★★★★★</b>	
<b>15" LCD TFT LED touch screen</b>		<b>15" LCD TFT LED touch screen</b>		<b>15" LCD TFT LED touch screen</b>	
XGA 1024 x 768, 16 M colors		XGA 1024 x 768, 16 M colors		XGA 1024 x 768, 16 M colors	
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door		IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door		IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
Aluminum or Stainless steel		Aluminum		Aluminum or Stainless steel	
Intel ATOM N270 (1.6 GHz)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset	
2 (1 PCI + 1 PCI Express®)		—		2 (1 PCI + 1 PCI Express)	
SSD flash disk ≥ 60 GB with 2 million hours MTBF		Enterprise 24/7 hard disk ≥ 500 GB		SSD flash disk ≥ 60 GB with 2 million hours MTBF	
2 GB		2 GB		4 GB	
1		—		1	
1 slide-in compact rack for storage disk (Flash disk or hard disk included)		1 slide-in compact rack for storage disk		1 slide-in compact rack for storage disk (Flash disk or hard disk included)	
1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)		1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)		1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)	
2 Ethernet 10/100/1000 Mbps		2 Ethernet 10/100/1000 Mbps		2 Ethernet 10/100/1000 Mbps	
1 USB 2.0 (1 A) on the front panel (only for Aluminum bezel version) + 4 USB 2.0 (0.5 and 1 A) at the top (for all models)		1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top		1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top	
2 RS-232C/1 DVI (VGA RGB adapter, optional)		2 RS-232C/1 DVI (VGA RGB adapter, optional)		2 RS-232C/1 DVI (VGA RGB adapter, optional)	
1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		1 RS-232C/422/485 (option only available in made-to-order configuration) (1)	
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		—		HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)	
Windows XP Professional SP3		Windows XP Professional SP3		Windows 7 Ultimate 64-bit	
402 x 301 x 153 mm/383.5 x 282.5 mm (15.83 x 11.85 x 6.02 in./15.10 x 11.12 in.)		402 x 301 x 119 mm/383.5 x 282.5 mm (15.83 x 11.85 x 4.68 in./15.10 x 11.12 in.)		402 x 301 x 168 mm/383.5 x 282.5 mm (15.83 x 11.85 x 6.61 in./15.10 x 11.12 in.)	
0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508		0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508		0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508	
1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)		0.125 g from 5...100 Hz		1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	
3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)		0.250 g from 5...100 Hz		3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	
—		—		—	
15 g/11 ms conforming to IEC 60068-2-27 test Ea		15 g/11 ms conforming to IEC 60068-2-27 test Ea		15 g/11 ms conforming to IEC 60068-2-27 test Ea	
<input type="checkbox"/> CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)		<input type="checkbox"/> CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)		<input type="checkbox"/> CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST <input type="checkbox"/> EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)	
—		—		—	
ATEX II 3 Dust zone 22 (Stainless steel bezel versions only)		ATEX II 3 Dust zone 22 (Stainless steel bezel versions only)		ATEX II 3 Dust zone 22 (Stainless steel bezel versions only)	
<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.		<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.		<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.	
—		HMIPUH7D2P01		HMIPPF7D0701	
—		—		—	
—		—		—	
—		—		—	
—		HMIPPF7D07F1		—	
HMIPUF7A2P01		HMIPUH7A2P01		HMIPPH7A0701	
HMIPUF7A2PF1		—		HMIPPF7A2701	
HMIPUF7D2P01		HMIPUH7D2P01		HMIPPF7A27F1	
—		—		—	
—		—		HMIPRH7A2701	
3/22		3/23		3/23	
See configured Magelis Panel PC on page 3/29		See configured Magelis Panel PC on page 3/29		See configured Magelis Panel PC on page 3/29	

(3) Conforming to IEC 60068-2-6 Fc.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal and Performance ranges with 19" touch screen

Type	Universal range - 19" touch screen (no PCI slot)	
Industrial environments	Maintenance-free (with Aluminum bezel)	Standard (with Aluminum bezel)



<b>Fanless</b>	★★★★★	★★★★★	★★★★★	
<b>Non-rotative storage drive</b>	★★★★★	★★★★★	—	
<b>Screen</b>	19" LCD TFT LED touch screen			
Type	SXGA 1280 x 1024, 16 M colors			
Resolution	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door			
Degree of protection	Aluminum			
Front panel bezel material	Intel ATOM N270 (1.6 GHz)			
<b>CPU (1)</b>	—			
Processor	Compact Flash card ≥ 4 GB (SLC technology)			
PCI slot	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB	—	
Storage	2 GB	2 GB	2 GB	
RAM (2)	—			
Integrated DVD-RW drive	1 slide-in compact rack for storage disk			
Slide-in rack for peripheral device	2 Ethernet 10/100/1000 Mbps			
Integrated ports	1 USB 2.0 (1 A) on the front panel + 4x USB 2.0 (0.5 and 1 A) at the top			
Optional ports (1)	2 RS-232C/1 DVI (VGA RGB adapter, optional)			
Optional RAID PCI card	1 RS-232C/422/485 (option only available in made-to-order configuration) (1)			
<b>Operating system</b>	—			
Windows® Embedded Standard 2009	Windows XP Professional SP3			
<b>Overall dimensions (W x H x D)/Cut-out (W x H)</b>	480 x 380 x 114 mm/459.5 x 359.5 mm (18.90 x 14.96 x 4.49 in./18.09 x 14.15 in.)			
<b>Temperature</b>	During operation: 0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508			
<b>Vibration resistance</b>	Continuous: 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (3)			
during operation	Non-continuous: 3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (3)			
Merchant navy IACS E10	1 mm/0.04 in amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance			
<b>Shock resistance</b>	During operation: 15 g/11 ms conforming to IEC 60068-2-27 test Ea			
<b>Standards and certifications</b>	CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST			
<b>Marine certification</b>	Germanischer Lloyd (Bridge Class) 24 V ~ only with additional power supply filter HMIYLFIMAR11			
<b>HMI Software</b>	<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.			
<b>References (1)</b>	24 V ~	<b>HMIPUC9D0E01</b>	<b>HMIPUF9D0P01</b>	<b>HMIPUH9D0P01</b>
24 V ~	Vijeo Citect Lite 1200 I/O	—	—	—
24 V ~	Vijeo Citect Full 500 I/O	—	<b>HMIPUF9D0PF1</b>	—
100...240 V ~	—	—	—	<b>HMIPUH9A0P01</b>
100...240 V ~	Vijeo Citect Full 500 I/O	—	—	—
<b>Pages</b>	3/24			
<b>Made-to-order configuration</b>	See configured Magelis Panel PC on page 3/29			

(1) Other options available (interface for backup battery, 3<sup>rd</sup> serial port, etc.) in made-to-order configuration (see page 3/26).  
 (2) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/26).

Universal range - 19" touch screen (2 PCI slots)		Performance range - 19" touch screen (no PCI slot)		Performance range - 19" touch screen (2 PCI slots)	
Maintenance-free (with Aluminum bezel)	Standard (with Aluminum bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum bezel)



★★★★★	★★★★★	—	—	—	—
★★★★★	—	★★★★★	—	★★★★★	—
19" LCD TFT LED touch screen					
SXGA 1280 x 1024, 16 M colors					
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door					
Aluminum					
Intel ATOM N270 (1.6 GHz)		Intel Core 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset			
2 slots (1 PCI + 1 PCI Express)		—		2 slots (1 PCI + 1 PCI Express)	
SSD flash disk ≥ 60 GB with 2 million hours MTBF		Enterprise 24/7 hard disk ≥ 500 GB		SSD flash disk ≥ 60 GB with 2 million hours MTBF	
2 GB		2 GB		4 GB	
—		—		4 GB	
1		—		1	
1 slide-in compact rack for storage disk (Flash disk or hard disk included)		1 slide-in compact rack for storage disk		1 slide-in compact rack for storage disk (Flash disk or hard disk included)	
1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)		—		1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)	
2 Ethernet 10/100/1000 Mbps		2 Ethernet 10/100/1000 Mbps			
1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top		1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top			
2 RS-232C/1 DVI (VGA RGB adapter, optional)		2 RS-232C/1 DVI (VGA RGB adapter, optional)			
1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		1 RS-232C/422/485 (option only available in made-to-order configuration) (1)			
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		—		HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)	
Windows XP Professional SP3		Windows 7 Ultimate 64-bit			
480 x 380 x 153 mm/459.5 x 359.5 mm (18.90 x 14.96 x 6.02 in./18.09 x 14.15 in.)		480 x 380 x 129 mm/459.5 x 359.5 mm (18.90 x 14.96 x 5.08 in./18.09 x 14.15 in.)		480 x 380 x 168 mm/459.5 x 359.5 mm (18.90 x 14.96 x 6.61 in./18.09 x 14.15 in.)	
0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508					
1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)		0.125 g from 5...100 Hz		1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	
3.5 mm/0.14 in from 2...9 Hz, 1 g from 9...200 Hz (3)		0.250 g from 5...100 Hz		3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	
—		—			
15 g/11 ms conforming to IEC 60068-2-27 test Ea					
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST					
—					
<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.					
—	<b>HMIPUH9D2P01</b>	<b>HMIPPF9D0701</b>	<b>HMIPPH9D0701</b>	—	<b>HMIPPH9D2701</b>
—	—	—	—	—	—
—	—	<b>HMIPPF9D07F1</b>	—	—	—
<b>HMIPUF9A2P01</b>	<b>HMIPUH9A2P01</b>	—	<b>HMIPPH9A0701</b>	<b>HMIPPF9A2701</b>	<b>HMIPPH9A2701</b>
<b>HMIPUF9A2PF1</b>	—	—	—	<b>HMIPPF9A27F1</b>	—
3/24		3/25			
See configured Magelis Panel PC on page 3/29					

(3) Conforming to IEC 60068-2-6 Fc.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

Universal and Performance ranges with 15" or 19" touch screen



15" and 19" Magelis Panel PC

3

### Presentation

The Magelis HMIP Panel PC, Universal and Performance ranges with 15" and 19" touch screens offer products that are rugged and certified for automation applications.

Both ranges are suitable for various uses in the following environments:

- Maintenance-free
- Harsh
- Standard

The Magelis HMIP 15" screen with a stainless steel front panel bezel and ATEX certification is recommended for targeted sectors such as the food and beverage, chemical, pharmaceutical, and oil and gas industries.

The 15" and 19" HMIPs are LCD TFT LED 16 M color touch screens with IP 65 front panel protection when mounted on a panel or an enclosure door.

The modular design of the Panel PCs provides a complete and coherent offer of referenced products with the Universal and Performance ranges. In addition to the referenced offer, the flexibility offered by the modular design allows made-to-order Magelis Panel PCs (see page 3/27).

### Overview of the range

#### Magelis HMIP Universal with 15" and 19" touch screens (1) (2)

The Magelis Universal Panel PC with 15" and 19" touch screens is equipped with a fanless Intel® ATOM™ N270 processor (1.6 GHz) and DDR2 RAM (3).

This range is designed for the following environments:

- Maintenance-free environment (fanless, with solid-state storage disk):
  - **HMIPUC7D0E01** and **HMIPUC9D0E01**:
    - No PCI slot
    - Compact Flash card/Windows® Embedded Standard 2009
    - 24 V  $\overline{\text{---}}$  power supply
  - **HMIPUF7D0P01**, **HMIPUF7D0PL1**, **HMIPUF7A0P01**, **HMIPUF9D0P01** and **HMIPUF9D0PF1**:
    - No PCI slot
    - SSD flash disk/Windows XP Professional SP3
    - 24 V  $\overline{\text{---}}$  or 100...240 V  $\sim$  power supply
  - **HMIPUF7A2P01**, **HMIPUF7A2PF1**, **HMIPUF9A2P01** and **HMIPUF9A2PF1**:
    - 1 PCI + 1 PCI Express®
    - SSD flash disk/Windows XP Professional SP3
    - 100...240 V  $\sim$  power supply
- Maintenance-free (fanless, with solid-state storage disk and Stainless steel front panel bezel):
  - **HMIPTF7D2P01**:
    - 1 PCI + 1 PCI Express
    - SSD flash disk/Windows XP Professional SP3
    - 24 V  $\overline{\text{---}}$  power supply
- Standard industrial environment (with hard disk):
  - **HMIPUH7D0P01**, **HMIPUH7A0P01**, **HMIPUH9D0P01** and **HMIPUH9A0P01**:
    - No PCI slot
    - Hard disk/Windows XP Professional SP3
    - 24 V  $\overline{\text{---}}$  or 100...240 V  $\sim$  power supply
  - **HMIPUH7D2P01**, **HMIPUH7A2P01**, **HMIPUH9D2P01** and **HMIPUH9A2P01**:
    - 1 PCI + 1 PCI Express
    - Hard disk/Windows XP Professional SP3
    - 24 V  $\overline{\text{---}}$  or 100...240 V  $\sim$  power supply
- Standard industrial environment (with hard disk and Stainless steel front panel bezel):
  - **HMIPTH7D2P01**:
    - 1 PCI + 1 PCI Express
    - SSD flash disk/Windows XP Professional SP3
    - 24 V  $\overline{\text{---}}$  power supply

(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express 4x.

(2) For description, see pages 3/20 and 3/21.

(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

#### Presentation (continued)

##### Overview of the range (continued)

##### Magelis HMIP Performance with 15" and 19" touch screens (1) (2)

The Magelis Panel PC Performance range is equipped with the Intel Core™ 2 Duo P8400 processor (2.26 GHz) + Intel GM45 Chipset and DDR3 RAM (3).

This range is designed for the following environments:

- Harsh industrial environment (with solid-state storage disk):
  - **HMIPPF7D0701, HMIPPF7D07F1, HMIPPF9D0701 and HMIPPF9D07F1:**
    - No PCI slot
    - SSD flash disk/Windows 7 Ultimate 64-bit
    - 24 V  $\overline{\text{---}}$  power supply
  - **HMIPPF7A2701, HMIPPF7A27F1, HMIPPF9A2701 and HMIPPF9A27F1:**
    - 1 PCI + 1 PCI Express
    - SSD flash disk/Windows 7 Ultimate 64-bit
    - 100...240 V  $\sim$  power supply
- Standard industrial environment (with hard disk):
  - **HMIPPH7D0701, HMIPPH7A0701, HMIPPH9D0701 and HMIPPH9A0701:**
    - No PCI slot
    - Hard disk/Windows 7 Ultimate 64-bit
    - 24 V  $\overline{\text{---}}$  or 100...240 V  $\sim$  power supply
  - **HMIPPH7D2701, HMIPPH7B2701 (4), HMIPPH7A2701, HMIPPH9D2701 and HMIPPH9A2701:**
    - 1 PCI + 1 PCI Express
    - Hard disk/Windows 7 Ultimate 64-bit
    - 24 V  $\overline{\text{---}}$  or 100...240 V  $\sim$  power supply
- Standard industrial environment (with hard disk and Stainless steel front panel bezel):
  - **HMIPRH7A2701:**
    - 1 PCI + PCI Express
    - Hard disk/Windows 7 Ultimate 64-bit
    - 100...240 V  $\sim$  power supply

##### Made-to-order Magelis HMIP Universal and Performance

On Magelis Universal and Performance Panel PC bases, you can customize the CPU by selecting:

- the Compact Flash card and RAM capacity
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional assembled options: PCI RAID card with 2 redundant hard disks (5), interface for backup battery, interface for battery-backed power supply module, third RS 485 port, etc.

For more information on the HMIPCC offer, see page 3/29.

##### USB accessories for HMI terminals

Magelis USB accessories are designed to expand the range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals (6).

The Magelis USB accessories supported by Magelis Panel PC include:

- Harmony XB5S biometric USB switch
- Magelis HMIZ illuminated USB switch

For more information on HMI USB accessories, please refer to our website [www.schneider-electric.com/USB](http://www.schneider-electric.com/USB) accessories for Magelis terminals.

(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express 4x.

(2) For description, see pages 3/20 and 3/21.

(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Supplied with an inserted interface module (battery-backed).

(5) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(6) Requires Vijeo Designer software running on Magelis Panel PC, not compliant with WES operating systems.

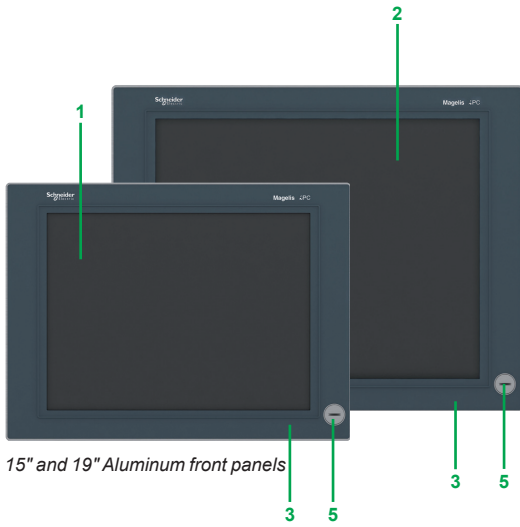
## Industrial PCs

Magelis iPCs for automation

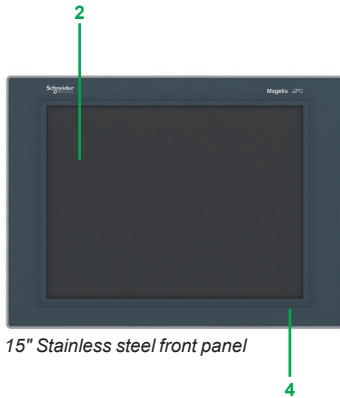
Magelis HMIP Panel PC

Universal and Performance ranges with  
15" or 19" touch screen

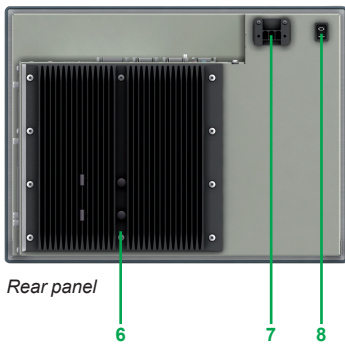
3



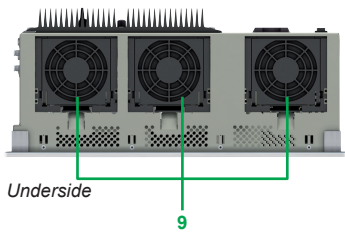
15" and 19" Aluminum front panels



15" Stainless steel front panel



Rear panel



Underside

15" or 19" Magelis Panel PC

### Description

**Magelis HMIP Universal and Performance:**  
**15" (Aluminum and Stainless steel bezel) and 19" (Aluminum bezel)**

#### Front panels

- 1 15" LCD TFT LED touch screen, XGA 1024 x 768, 16 M colors for **HMIP●●7●●●●●●**:
  - Brightness: 350 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: analog resistive film, 4096 x 4096 resolution
  - Typical viewing angle: 100° (vertically)/160° (horizontally)
- 2 19" LCD TFT LED touch screen, SXGA 1280 x 1024, 16 M colors for **HMIP●●9●●●●●●**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: analog resistive film, 4096 x 4096 resolution
  - Typical viewing angle: 100° (vertically)/160° (horizontally)
- 3 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
  - Mounted on a 1.6...10 mm/0.063...0.394 in. thick support using the screw fasteners supplied (1)

or

- 4 Stainless steel 304 "Scotch Brite®" brushed finish front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
  - Mounted on a 1.6...10 mm/0.063...0.394 in. thick support using the stainless steel screw fasteners supplied (1)
  - Simplified cleaning because of the absence of a USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2)
  - Version fitted with special seals (standard FDA 21 CFR 177.206)
- 5 USB 2.0 port (1 A max.) with screw-on protective cover (only available for Aluminum version):
  - Captive protective cover option also available (2)

#### Rear panel

- 6 Heat sink (1)
- 7 Connector for Panel PC 100...240 V ~/1.6 A power supply (Panel PC **HMI●●●●A●●●●**) (3)
- 8 On/Off switch for 100...240 V ~ power supply (Panel PC **HMI●●●●A●●●●**)

#### Underside

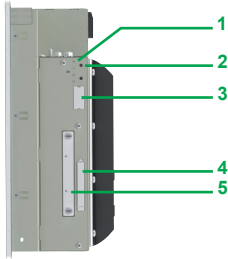
- 9 Fans (Panel PC **HMIPP●●●●●●●●**) (4)  
Natural convection (Panel PC **HMIPU●●●●●●●●**) (1)

(1) For installation, please refer to the product data sheets of respective product references.

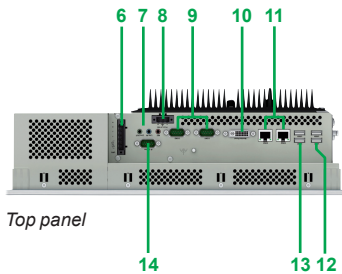
(2) To be ordered separately (see page 3/26).

(3) Consumption excluding additional PCI card.

(4) Can be replaced with the Panel PC fan kit by the customer (to be ordered separately, see page 3/26).

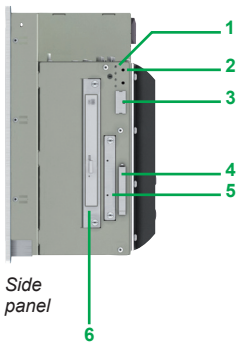


Side panel

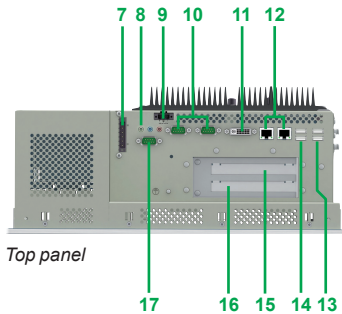


Top panel

15" or 19" Magelis Panel PC, no PCI slot



Side panel



Top panel

15" or 19" Magelis Panel PC, 2 PCI slots

#### Description (continued)

##### Magelis HMIP Universal and Performance: 15" and 19", no PCI slot

###### Side panel

- 1 4 status and power supply LEDs
- 2 2 pushbuttons: 1 for power supply and 1 for resetting
- 3 Battery
- 4 Slot for Compact Flash card:
  - With Compact Flash card (SLC technology) ≥ 4 GB (Panel PC **HMIPUC•D0E01**)
  - Free slot (Panel PC **HMIP•F•••0•••1**, **HMIP•H•••0•••1**)
- 5 Slide-in compact rack:
  - Free slot (Panel PC **HMIPUC•D0E01**)
  - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIP•F•••0•••1**)
  - With hard disk ≥ 500 GB (Panel PC **HMIP•H•••0•••1**)

###### Top panel

- 6 Free slot for battery-backed power supply interface module (1)
- 7 Micro input, line input/line output
- 8 Connector for Panel PC 24 V  $\overline{\text{---}}$ /7 A power supply (Panel PC **HMIP••••D0•••1**) (2)
- 9 2 RS-232C ports
- 10 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 11 2 Ethernet 10/100/1000 Mbps ports
- 12 2 USB 2.0 ports (1 A max.)
- 13 2 USB 2.0 ports (0.5 A max.)
- 14 Slot for additional RS-232C/422/485 serial link interface; to be ordered separately in made-to-order configurations (1)

##### Magelis HMIP Universal and Performance: 15" and 19", 2 PCI slots

###### Side panel

- 1 4 status and power supply LEDs
- 2 2 pushbuttons: 1 for power supply and 1 for resetting
- 3 Battery
- 4 Free slot for Compact Flash card
- 5 Slide-in compact rack:
  - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIP•F••••••••1**)
  - With hard disk ≥ 500 GB (Panel PC **HMIP•H••••••••1**)
- 6 Slide-in rack with the DVD-RW drive included (3); can be used for an additional storage disk with adapter (**HMIYADSLIDEIN11**) (4)

###### Top panel

- 7 Slot for battery-backed power supply interface module:
  - Module mounted on Panel PC **HMIPPH7B2701**
  - Module not included as standard on other models (1)
- 8 Micro input, line input/line output
- 9 Connector for Panel PC 24 V  $\overline{\text{---}}$ /7 A power supply (Panel PC **HMIP•D••••••••1**) (2)
- 10 2 RS-232C ports
- 11 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 12 2 Ethernet 10/100/1000 Mbps ports
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 Half-format PCI Express 4x slot
- 16 Half-format PCI 2.2 slot
- 17 Slot for additional RS-232C/422/485 serial link interface; to be ordered separately in made-to-order configurations (1)

(1) To be ordered separately in made-to-order configurations (see page 3/27).

(2) Consumption excluding additional PCI card.

(3) Operating temperature details available on our website [www.schneider-electric.com/HMI/IndustrialPCandDisplay](http://www.schneider-electric.com/HMI/IndustrialPCandDisplay).

(4) To be ordered separately as an accessory (see page 3/26).

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal range - 15" touch screen

### Magelis HMIP Universal: 15" LCD TFT LED touch screen (1) (2) Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM

Supply voltage PCI slot	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg/lb
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#### For maintenance-free environment (with Aluminum front panel bezel)

24 V ~ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Compact Flash (SLC technology) ≥ 4 GB	2 GB	<b>HMIPUC7D0E01</b>	8.900/ 19.621	
		Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF7D0P01</b>	9.000/ 19.842
		Vijeo Designer RT Demo (5) Vijeo Citect Lite 1200 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF7D0PL1</b>	9.000/ 19.842	

100...240 V ~ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF7A0P01</b>	9.500/ 20.943
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100...240 V ~ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF7A2P01</b>	10.900/ 24.030
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Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF7A2PF1</b>	10.900/ 24.030
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#### For maintenance-free environment (with Stainless steel front panel bezel)

24 V ~ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPTF7D2P01</b>	11.100/ 24.471
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#### For standard industrial environment (with Aluminum front panel bezel)

24 V ~ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	<b>HMIPUH7D0P01</b>	9.000/ 8.818
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24 V ~ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	<b>HMIPUH7D2P01</b>	10.300/ 22.708
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100...240 V ~ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	<b>HMIPUH7A0P01</b>	9.500/ 20.943
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100...240 V ~ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	<b>HMIPUH7A2P01</b>	10.900/ 24.030
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#### For standard industrial environment (with Stainless steel front panel bezel)

24 V ~ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	<b>HMIPTH7D2P01</b>	11.100/ 24.471
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(1) 15" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer RT Demo (5)

(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTMZLSPAZZ.

PF110314



HMIPU700001  
(Screen side)

3

PF110378



HMIPTF7D2P01  
HMIPTH7D2P01  
(Screen side)

PF110341



HMIPU7A0P01  
(CPU side)

PF110327



HMIPU7A2P01  
(CPU side)

PF110340



HMIPUH7D2P01  
(CPU side)



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

Performance range - 15" touch screen

#### Magelis HMIP Performance: 15" LCD TFT LED touch screen (1) (2)

##### Intel Core 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg/lb
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#### For harsh industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF7D0701</b>	10.100/ 22.267
		RT Demo (4)				

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF7D07F1</b>	10.100/ 22.267
		RT Demo (4)				
		Vijeo Citect Full 500 I/O				

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF7A2701</b>	12.000/ 26.455
		RT Demo (4)				

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF7A27F1</b>	12.000/ 26.455
		RT Demo (4)				
		Vijeo Citect Full 500 I/O				

#### For standard industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH7D0701</b>	10.100/ 22.267
		RT Demo (4)				

24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH7D2701</b>	11.400/ 25.133
		RT Demo (4)				

24 V $\overline{\text{---}}$ with interface for backup battery 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH7B2701</b>	11.400/ 25.133
		RT Demo (4)				

100...240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH7A0701</b>	10.600/ 23.368
		RT Demo (4)				

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH7A2701</b>	12.000/ 26.455
		RT Demo (4)				

#### For standard industrial environment (with Stainless steel front panel bezel)

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPRH7A2701</b>	12.200/ 26.896
		RT Demo (4)				

(1) 15" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.



HMIPPF7D0701  
(Screen side)



HMIPPF7A2701  
(Screen side)



HMIPPF7A0701  
(CPU side)



HMIPPH7A0701  
(CPU side)



HMIPPH7D2701  
(CPU side)

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

#### Universal range - 19" touch screen

### Magelis HMIP Universal: 19" LCD TFT LED touch screen (1) (2) (Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM)

Supply voltage PCI slot	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg/lb
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#### For maintenance-free environment (with Aluminum front panel bezel)

<b>24 V</b> $\overline{\text{---}}$ <b>No PCI slot</b>	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Compact Flash (SLC technology) $\geq$ 4 GB	2 GB	<b>HMIPUC9D0E01</b>	13.600/ 29.983
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF9D0P01</b>	13.700/ 30.203

<b>100...240 V</b> $\sim$ <b>1 PCI +</b> <b>1 PCI Express</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF9A2P01</b>	14.700/ 32.408
		Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF9D0PF1</b>	13.700/ 30.203

<b>100...240 V</b> $\sim$ <b>1 PCI +</b> <b>1 PCI Express</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF9A2P01</b>	14.700/ 32.408
		Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	<b>HMIPUF9A2PF1</b>	15.500/ 34.172

#### For standard industrial environment (with Aluminum front panel bezel)

<b>24 V</b> $\overline{\text{---}}$ <b>No PCI slot</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9D0P01</b>	13.700/ 30.203
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9D2P01</b>	15.000/ 33.069

<b>24 V</b> $\overline{\text{---}}$ <b>1 PCI +</b> <b>1 PCI Express</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9D0P01</b>	13.700/ 30.203
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9A0P01</b>	14.300/ 31.526

<b>100...240 V</b> $\sim$ <b>No PCI slot</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9A0P01</b>	14.300/ 31.526
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9A2P01</b>	15.500/ 34.172

<b>100...240 V</b> $\sim$ <b>1 PCI +</b> <b>1 PCI Express</b>	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9A0P01</b>	14.300/ 31.526
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	<b>HMIPUH9A2P01</b>	15.500/ 34.172

(1) 19" touch screen: SXGA 1280 x 1024, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer Run Time Demo (5)

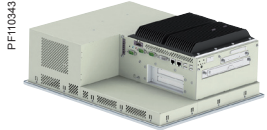
(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTMZLSPAZZ.



HMIPU9A0P01  
(screen side)



HMIPU9A2P01  
(CPU side)



HMIPUH9D2P01  
(CPU side)



HMIPUH9A0P01  
(CPU side)

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIP Panel PC

Performance range - 19" touch screen

#### Magelis HMIP Performance: 19" LCD TFT LED touch screen<sup>(1) (2)</sup> (Intel Core 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM)

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM <sup>(3)</sup>	Reference	Weight kg/lb
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#### For harsh industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF9D0701</b>	14.800/ 32.628
		Vijeo Designer RT Demo <sup>(4)</sup> Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF9D07F1</b>	14.800/ 32.628

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF9A2701</b>	16.600/ 36.596
		Vijeo Designer RT Demo <sup>(4)</sup> Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	<b>HMIPPF9A27F1</b>	16.600/ 36.596

#### For standard industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH9D0701</b>	14.800/ 32.628
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24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH9D2701</b>	16.100/ 35.494
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100...240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH9A0701</b>	15.400/ 33.951
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100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo <sup>(4)</sup>	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	<b>HMIPPH9A2701</b>	16.500/ 36.376
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(1) 19" touch screen: SXGA 1280 x 1024, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC), (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.

PF110313



HMIPPF9A0701  
(Screen side)

PF110326



HMIPPF9A2701  
(CPU side)

PF110343



HMIPPH9D2701  
(CPU side)

PF110342



HMIPPH9A0701  
(CPU side)



Separate components						
Description	Details	Compatible with Magelis HMIP ranges:			Reference	Weight kg/lb
		Optimum	Universal	Performance		
Hard disk drive	500 GB, blank	-	12" HMIP		HMIYHDD50061	-
SSD flash disk with 2 million hours MTBF	60 GB, blank	-	12" HMIP		HMIYSDD06061	-
	128 GB, blank	-	12" HMIP		HMIYSDD18061	-
CFast card (SLC technology)	4 GB, blank	-	12" HMIP		HMIYCFA04	-
	8 GB, blank	-	12" HMIP		HMIYCFA08	-
	16 GB, blank	-	12" HMIP		HMIYCFA16	-
DVD-RW drive for slide-in slot (1)	CD-RW and DVD-RW reader/writer	-	12" HMIP		HMIYDRDVDRW61	-
RAM expansion DDR3	2 GB for 1 slot	-	12" HMIP		HMIYPRAM302061	-
	4 GB for 1 slot	-	12" HMIP		HMIYPRAM304061	-
	8 GB for 1 slot	-	12" HMIP		HMIYPRAM308061	-
Interface module	Additional serial link RS-232/422/485	-	12" HMIP		HMIYPINSL61	-
	SRAM for Vijeo Designer	-	12" HMIP		HMIYPINSRAM61	-
	Battery backup interface	-	12" HMIP		HMIYPUPSINT61	-
Backup power supply kit	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m/9.842 ft cordset	-	12" HMIP (requires battery backup interface HMIYPUPSINT61)		HMIYUPSKT61	-
Slide-in adapter for storage disk (2)	To insert a hard disk, an SSD flash disk, or a CFast card with adapter, in a slide-in slot	-	12" HMIP		HMIYADSLIDEIN61	-
Slide-in compact adapter for CFast card (2)	To insert a CFast card in a slide-in compact slot	-	12" HMIP		HMIYADCFAST61	-
Expansion module slots	Module with 1 PCI + 1 slide-in slots	-	12" HMIP		HMIYPCI161	-
	Module with 1 PCI Express + 1 slide-in slots	-	12" HMIP		HMIYPCIC61	-
	Module with 1 PCI + 1 PCI Express + 1 slide-in slots	-	12" HMIP		HMIYPCI261	-
	Module with 2 PCI + 1 slide-in slots	-	12" HMIP		HMIYPCIA61	-
AC to DC power supply module	To replace or add an AC power module	-	12" HMIP		HMIYPMAC61	-
Maintenance kit for HMIP includes:	1 x 3-way removable connector for 24 V $\overline{\text{---}}$ power supply 1 x 3-way removable connector for 100...240 V $\sim$ power supply 18 screw fasteners 2 front USB port caps 5 Fan filters	-	12" HMIP		HMIYPMKT61	-
Fan kit for HMIP	To replace or add a fan	-	12" HMIP		HMIYPFKT061	-
Screen protection	5 sheets of protective film for 12" screen	-	12" HMIP		MPCYK20SPSKIT	-

(1) Operating temperature details are available on our website [www.schneider-electric.com/HMI/Industrial\\_PC\\_and\\_Display](http://www.schneider-electric.com/HMI/Industrial_PC_and_Display).

(2) The user has to check that the third-party drives are compliant.

## Separate components

Description	Details	Compatible with Magelis HMIP ranges:			Reference	Weight kg/lb
		Optimum	Universal	Performance		
<b>Storage disks, peripheral equipment, kits</b>						
Hard disk	500 GB, blank	–	15" and 19" HMIPs	–	HMIYHDD050011	–
SSD flash disk with 2 million hours MTBF	60 GB, blank	–	15" and 19" HMIPs	–	HMIYSDD006011	–
	128 GB, blank	–	15" and 19" HMIPs	–	HMIYSDD012011	–
Compact Flash card (SLC technology)	2 GB, blank	10", 15" and 19" HMIPs	–	–	HMIYCFS0211	–
	4 GB, blank	10", 15" and 19" HMIPs	–	–	HMIYCFS0411	–
	8 GB, blank	10", 15" and 19" HMIPs	–	–	HMIYCFS0811	–
SD memory card	4 GB, blank, for user data	All models	–	–	HMIZSD4G	–
DVD-RW drive for slide-in rack (1)	CD-RW and DVD-RW reader/writer	–	15" and 19" HMIPs with 2 PCI slots	–	HMIYDRDVDRW11	–
Slide-in adapter for storage disk (3)	Used to insert a hard disk or an SSD flash disk in a slide-in rack	–	15" and 19" HMIPs with 2 PCI slots	–	HMIYADSLIDEIN11	–
DVI/VGA RGB adapter	For connecting an RGB screen to the integrated DVI port	–	All models	–	HMIYADDVIRGB11	–
RAID PCI card with 2 redundant hard disks (1)	PCI card equipped with two redundant hard disks Enterprise 24/7 ≥ 500 GB	–	15" and 19" HMIPs with 2 PCI slots	–	HMIYRAIDPCI11	–
Hard disk for RAID PCI card	Replacement hard disk for RAID PCI card HMIYRAIDPCI11	–	15" and 19" HMIPs with 2 PCI slots + RAID PCI card HMIYRAIDPCI11	–	HMIYRAIDD050011	–
Backup power supply kit	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m/9.842 ft cordset	–	Configured Magelis 15" and 19" HMIPs with battery-backed power supply interface module (2)	–	HMIYUPSKT11	–
Power supply filter for marine certification	Necessary for compliance with marine certification.	HMIP HMI PWC7D0E01	15" and 19" HMIPs universal DC PUC●D●●●●●/ PUF●D●●●●●	–	HMIYLFIMAR11	–
Maintenance kit for Panel PC	Includes: ■ 1x 3-way removable connector for 24 V ~ power supply ■ 1x 3-way removable connector for 100...240 V ~ power supply ■ 2 protective covers for USB port on front panel (only on Aluminum bezel versions) ■ 10 replacement filters for fan, including: □ 5 for Magelis Panel PC with no PCI slot □ 5 for Magelis Panel PC with 2 PCI slots ■ 18 screw fasteners (Aluminum bezel) or 14 fasteners (Stainless steel bezel)	–	15" and 19" HMIPs	–	HMIYPMKT11	0.060/ 0.132
Captive USB protective cover	2 captive covers for USB port on front panel	All Aluminum bezel version models	–	–	HMIYPUSBUN511	0.040/ 0.088
Fan kit for HMIP	For fan replacement by user	–	15" and 19" HMIPs with no PCI/PCI Express slots	–	HMIYPFKT01	0.250/ 0.551
			15" and 19" HMIPs with PCI/PCI Express slots	–	HMIYPFKT21	0.800/ 1.764
Screen protection	5 sheets of protective film for 10" screen	HMIP HMI PWC5D0E01	–	–	MPCYK20SPSKIT	–
	5 sheets of protective film for 15" screen (Aluminum and Stainless steel bezel versions)	HMIP HMI P●C7D0E01	HMIP HMIP●●7●●●●●	–	MPCYK50SPSKIT	–
	5 sheets of protective film for 19" screen	–	HMIP HMIP●●9●●●●●	–	MPCYK90SPSKIT	–
Cable for iDisplay 15"	Extra long (10 m/3.28 ft)	–	All models	–	HMIYCABDVI1011	–

(1) Operating temperature details are available on our website [www.schneider-electric.com/HMI/Industrial\\_PC\\_and\\_Display](http://www.schneider-electric.com/HMI/Industrial_PC_and_Display).

(2) For configured Magelis Panel PCs, see page 3/27.

(3) The user has to check that the third-party drives are compliant.

# Industrial PCs

## Magelis iPCs for automation

Separate components for Magelis HMIP  
Optimum, Universal and Performance ranges

### Separate components

Description	Details	Compatible with Magelis HMIP ranges:			Reference	Weight kg/lb
		Optimum	Universal	Performance		
<b>Software</b>						
<b>Vijeo Designer RT license</b> for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license	All models			<b>VJDSNRTMPC</b>	–
<b>License extension Intelligent Data Service for Vijeo Designer RT</b> for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)			<b>VJDSNTRCKV60M</b>	–
<b>External Phaseo power supply</b>						
<b>Phaseo regulated switch mode power supply ABL8</b> Rail mounting	Input voltage: 100...120 V/200...500 V ~ (1) Output voltage: 24 V --- Power: 120 W	All models	–		<b>ABL8RPS24050</b> (2) (3)	–
<b>Phaseo regulated switch mode power supply ABL4</b> Rail mounting	Input voltage: 100...230 V ~ (1) Output voltage: 24 V --- Power: 120 W	All models	–		<b>ABL4RSM24050</b> (2) (3)	–

(1) Single-phase connection. Phase-to-phase connection is possible on certain American line supplies. For more information, please contact our Customer Care Center.

(2) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please refer to the "Phaseo power supply and transformer" catalog on our website [www.schneider-electric.com/Phaseo](http://www.schneider-electric.com/Phaseo) power supplies and transformers.

(3) To order this reference, please contact our Customer Care Center.

3

#### Configured Magelis HMIP

With the "configured iPC" service, Schneider Electric offers a vast number of configuration combinations for Magelis iPCs.

This service, available exclusively from our Customer Care Center, allows users to configure a certified product suitable for specific automation applications and environments, based on Magelis Panel PCs.

Our Customer Care Center draws up:

- the complete parts list for the configured Magelis HMIP
- the selling price
- the complete reference (root + code which varies according to the configuration)
- the purchase order

#### Ordering procedure for a configured Magelis HMIP

- 1 Please contact our Customer Care Center.
- 2 State the reference root; this root will be completed with the variable part of the reference, once configuration is complete. The root varies depending on which Magelis HMIP base is selected:
  - **HMIPCCW** corresponds to a configured Magelis Optimum HMIP base, with an Aluminum front panel
  - **HMIPCCV** corresponds to a configured Magelis Optimum HMIP base, with a stainless steel front panel
  - **HMIPCCP** corresponds to a configured Magelis Universal or Performance Panel PC base, with an Aluminum front panel
  - **HMIPCCCT** corresponds to a configured Magelis Universal or Performance Panel PC base, with a stainless steel front panel
- 3 Configure your Magelis Panel PC (see table below).
- 4 Confirm your order.

#### References

Description	Magelis HMIP base	Reference	Weight kg/lb
<b>Configured Magelis HMIP</b> The configuration should be made up from the components below. (1)	Optimum, Aluminum front panel bezel	<b>HMIPCCW (2)</b>	–
	Optimum, stainless steel front panel bezel (15" screen only)	<b>HMIPCCV (2)</b>	–
	Universal and Performance, Aluminum front panel bezel	<b>HMIPCCP (2)</b>	–
	Universal and Performance, stainless steel front panel bezel (15" screen only)	<b>HMIPCCCT(2)</b>	–

Description	Available on Magelis HMIP Panel PC base			Reference	Weight kg/lb
	Optimum Processor Intel® ATOM™ Z510 (1.1 GHz) DDR2 RAM 24 V ~ power supply	Universal Processor Intel ATOM N270 or iCore 827E DDR2 or DDR3 RAM 24 V ~ or 100...240 V ~ power supply	Performance Processor Intel Core™ 2 Duo P8400 or i3 iCore DDR3 RAM 24 V ~ or 100...240 V ~ power supply		
<b>LCD TFT LED touch screen</b> 16 M colors	10.4" or 15"	12", 15" or 19"		(2)	–
<b>RAM</b>	2 GB max. (DDR2)	3 GB max. for 15" and 19" 16 GB max. for 12"	8 GB max. for 15" and 19" 16 GB max. for 12"		
<b>Peripheral storage devices</b>	Compact Flash card 8 GB max. or CFast card 16 GB max. (SLC technology)				
	Up to 2 SSD flash disks ≥ 128 GB with 2 million hours MTBF				
	Up to 2 hard disks ≥ 500 GB (Enterprise 24/7)				
<b>Other peripheral device</b>	DVD-RW drive				
<b>PCI slot configuration</b>	No PCI slot				
	1 PCI + 1 PCI Express for 12" only				
	1 PCI + 1 PCI Express or 2 PCI				
<b>Operating systems</b>	Windows® Embedded Standard 2009				
	Windows Embedded Standard 7 32-bit				
	Windows XP PRO SP3				
	Windows 7 Ultimate 32-bit				
	Windows 7 Ultimate 64-bit				
<b>Software</b>	Vijeo Designer RT				
	Vijeo Citect				
<b>Assembled options</b>	RAID with 2 redundant hard disks				
	Interface module for backup power supply (4)				
	SRAM interface for 12" (default on others)				
	Additional RS-232C/422/485 serial link interface				
	1 or 2 Ethernet ports	2 Ethernet ports			

(1) Please contact our Customer Care Center.

(2) The reference for configured Magelis HMIPs is made up of a root (HMIPCCW, HMIPCCV, HMIPCCP or HMIPCCCT) followed by a variable part generated during configuration.

(3) Required to connect backup power supply kits HMIYUPSKT●1 (see page 3/26).

3

Old PC Panels		Replaced by Magelis HMIP		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Smart (with Compact Flash card)</b>		<b>Magelis HMIP (Optimum or Universal range)</b>			
Magelis Smart 8.4" screen, 24 V ~	MPCST11NDJ00T	Magelis Optimum HMIP 10" screen, 24 V ~	HMIPWC5D0E01		
Magelis Smart 8.4" screen, 100...240 V ~	MPCST11NAJ00T	Magelis Optimum HMIP 10" screen, 24 V ~	HMIPWC5D0E01 + Phaseo power supply (1)		
Magelis Smart 12" screen, 24 V ~	MPCST21NDJ20T	Magelis Universal 12" HMIP screen, 24 V ~	HMIPUC6D0E01		
Magelis Smart 12" screen, 240 V ~	MPCST21NAJ20T	Magelis Optimum 15" HMIP screen, 24 V ~, ATEX	HMIPVC7D0E01		
Magelis Smart 15" screen, 24 V ~	HMIPSC7DE03 MPCST52NDJ20T	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUC6A0E01		
Magelis Smart 15" screen, 100...240 V ~	HMIPSC7AE03 MPCST52NAJ20T MPCST52NAJ20H	Magelis Optimum 15" HMIP screen, 24 V ~	HMIPWC7D0E01		
<b>Magelis Smart+ (with flash disk)</b>		<b>Magelis HMIP (Universal range)</b>			
Magelis Smart+ 15" screen, 24 V ~	HMIPSF7DP03	Magelis Universal 15" HMIP screen, 24 V ~	HMIPUF7D0P01		
Magelis Smart+ 15" screen, 100...240 V ~	HMIPSF7AP03	Magelis Universal 15" HMIP screen, 24 V ~, ATEX	HMIPTF7D2P01		
Magelis Smart+ 15" screen, 100...240 V ~ Vijeo Citect Lite 1200 I/O	HMIPSF7APL3 (2)	Magelis Universal 15" HMIP screen, 100...240 V ~	HMIPUF7A0P01		
Magelis Smart+ 15" screen, 100...240 V ~ Vijeo Citect Full 500 I/O	HMIPSF7APF3	Magelis Universal 15" HMIP screen, 100...240 V ~, ATEX	HMIPCCT(3)		
<b>Magelis Compact iPC - General Purpose (with hard disk)</b>		<b>Magelis HMIP (Universal range)</b>			
Magelis Compact iPC - General Purpose 8.4" screen, HDD, 240 V ~	MPCKT12NAX00N	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUH6A0701 (4)		
Magelis Compact iPC - General Purpose 12" screen, 240 V ~	MPCKT22NAX20N	Magelis Optimum 10" HMIP screen, 24 V ~	HMIPWC5D0E01A (1)		
Magelis Compact iPC - General Purpose 15" screen, 24 V ~	MPCKT55NDX20N	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUH6A0701 (4)		
Magelis Compact iPC General Purpose 15" screen, 100...240 V ~	MPCKT55NAX20N	Magelis Universal 15" HMIP screen, 24 V ~	HMIPUH7D2P01		
<b>Magelis Compact iPC - Heavy Duty (with Flash disk)</b>		<b>Magelis HMIP (Universal range)</b>			
Magelis Compact iPC - Heavy Duty 12" screen, 240 V ~	MPCKT22MAX20N	Magelis Universal 15" HMIP screen, 24 V ~, ATEX	HMIPTH7D2P01		
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~	MPCKT55MAX20N	Magelis Universal 15" HMIP screen, 100...240 V ~	HMIPUH7A2P01		
		<b>Cut-out or screen definition</b>	Identical		
			Different		

(1) ABL8RPS24050 or ABL4RSM24050 Phaseo power supply (see page 3/26).  
 (2) Correspondence between different power supplies: 100...240 V ~/24 V ~.  
 (3) Made-to-order configuration (see page 3/27).  
 (4) if necessary, add module HMIYPCI161 with 1 PCI slot (see page 3/26).



Old PC Panels		Replaced by Magelis HMIP		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Compact iPC - Heavy Duty (with flash disk) (continued)</b>		<b>Magelis HMIP (Universal range) (continued)</b>			
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~ Vijeo Citect Lite 1200 I/O	<b>MPCKT55MAX20L</b>	Magelis Universal 15" HMIP screen, 100...240 V ~ Vijeo Citect Full 500 I/O	<b>HMIPUF7A2PF1</b>		
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~ Vijeo Citect Full 500 I/O	<b>MPCKT55MAX20V</b>	Configured Magelis HMIP Universal HMIP base with: ■ 15" screen, 100...240 V ~ ■ Vijeo Citect Lite 1200 I/O	<b>HMIPCCP (5)</b>		
<b>Old Front Panels + Flex PC Box</b>		<b>Replaced by Magelis iPC</b>		<b>Compatibility</b>	
Description	References	Description	References (1)	Cut-out for flush mounting	Screen definition
<b>Front Panels + Magelis Flex PC Box</b>		<b>Magelis HMIP or Magelis iDisplay + Magelis Box PC</b>			
Front Panel with 12" touch screen and keypad + Magelis Flex PC Box 24 V --- or 100...240 V ~ (2)	<b>MPCYB20NNN00N</b> + <b>MPCF/H●●●●●●●●</b>	Magelis Optimum/Universal/Performance HMIP 15" touch screen, 24 V --- or 100...240 V ~	<b>HMIP●●7●●●●● (3)</b>		
		Magelis iDisplay with 15" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ---	<b>MPCYT50NAN00N (3)</b> + <b>HMIB●●●●●●●● (4)</b>		
		Magelis iDisplay with 15" screen, 24 V --- + Magelis Universal/Performance HMIB, 24 V ---	<b>HMIDID7DT0 (3)</b> + <b>HMIB●●●●●●●● (4)</b>		
		Magelis iDisplay with 15" screen and keypad, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ---	<b>MPCNB50NAN00N</b> + <b>HMIB●●●●●●●● (4)</b>		
Front Panel with 15" touch screen + Magelis Flex PC Box 24 V --- or 100...240 V ~ (2)	<b>MPCYT50NNN00N</b> + <b>MPCF/H●●●●●●●●</b>	Magelis Optimum/Universal/Performance HMIP 15" touch screen, 24 V --- or 100...240 V ~	<b>HMIP●●7●●●●●</b>		
		Magelis iDisplay with 15" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ---	<b>MPCYT50NAN00N</b> + <b>HMIB●●●●●●●● (4)</b>		
		Magelis iDisplay with 15" screen, 24 V --- + Magelis Universal/Performance HMIB, 24 V ---	<b>HMIDID7DT0</b> + <b>HMIB●●●●●●●● (4)</b>		
Front Panel with 15" touch screen and keypad + Magelis Flex PC Box 24 V --- or 100...240 V ~ (2)	<b>MPCYB50NNN00N</b> + <b>MPCF/H●●●●●●●●</b>	Magelis iDisplay with 15" screen and keypad, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ---	<b>MPCNB50NAN00N</b> + <b>HMIB●●●●●●●● (4)</b>		
Front Panel with 19" touch screen + Magelis Flex PC Box 24 V --- or 100...240 V ~ (2)	<b>MPCYT90NNN00N</b> + <b>MPCF/H●●●●●●●●</b>	Magelis Universal/Performance HMIP 19" touch screen, 24 V --- or 100...240 V ~	<b>HMIP●●9●●●●●</b>		
		Magelis iDisplay with 19" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ---	<b>MPCYT90NAN00N</b> + <b>HMIB●●●●●●●● (4)</b>		
				<b>Cut-out or screen definition</b>	<b>Identical</b>
					<b>Different</b>

(1) Complete references: Magelis Panel, see pages 3/5, 3/22 or 3/24/Magelis iDisplay/Magelis HMIB, see pages 5/8 and 7/5.  
 (2) Power provided by the Magelis Flex PC Box CPU; the type of power supply depends on the CPU model.  
 (3) Correspondence between different screen functions: touch screen + keypad/touch screen.  
 (4) Correspondence between different power supplies: 100...240 V ~/24 V ---.  
 (5) Made-to-order configuration (see page 3/27).



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## Magelis HMIBS S-Box PC - Optimized and Universal ranges

*Selection guide* ..... page 4/2

■ **Presentation**

- Overview of the range
  - Magelis HMIBS Optimized ..... page 4/4
  - Magelis HMIBS Universal..... page 4/4
- Remote monitoring system of Magelis HMIBS..... page 4/4
- Magelis iDisplay monitor for Magelis HMIBS ..... page 4/5
- HMI software support for Magelis HMIBS ..... page 4/5

■ **Description**

- Magelis HMIBS Optimized ..... page 4/5
- Magelis HMIBS Universal ..... page 4/5

■ **Reference**

- Magelis HMIBS Optimized ..... page 4/6
- Magelis HMIBS Universal ..... page 4/6
- Separate components ..... page 4/7

# Industrial PCs

Magelis iPCs for automation  
Magelis HMIBS S-Box PC  
Optimized and Universal ranges

Type	Optimized range
Industrial environments	Standard



<b>Fanless</b>		*****
<b>Non-rotative storage drive</b>		*****
<b>CPU</b>	Processor	Intel® ATOM™ N270 (1.6 GHz), single-core
	Mini PCI Express® slot	1 half-size
	Storage	Compact Flash slot and internal SATA slot for HDD/SSD
	Slots	–
	Drives	Compact Flash card ≥ 8 GB
	RAM	2 GB DDR2 (2 max.)
<b>Operating system</b>		– Windows® Embedded Standard 2009
<b>Supply voltage</b>	Voltage	9...36 V ~ (± 5%, 15 W)
	Current (excluding PCIe card)	1.5 A
<b>Interface</b>	Ethernet	1 Ethernet 10/100/1000 Mbps
	Serial ports	2 RS-232
	USB	2 USB 2.0
	Audio	–
	Video	1 VGA
	Interface	Up to 1600 x 1200 at 85 Hz
	Resolution	–
	Digital I/O	–
Watchdog timer	Timer with 255 levels/intervals, programmable, 1...255 s	
<b>Reset button</b>		Yes
<b>Buzzer</b>		Yes
<b>Mounting</b>		DIN rail or desk/wall mounting
<b>Overall dimensions (W x H x D)</b>		254.8 x 58.7 x 149.2 mm / 10.03 x 2.31 x 5.88 in.
<b>Temperature</b>	During operation	Conforming to EN/IEC 60068-2-2: 0...60 °C / 32...140 °F
	During storage	Conforming to IEC 60068-2-2/60068-2-14: -40...85 °C / -40...185 °F
<b>Vibration resistance</b>	During operation	Conforming to IEC 60068-2-6: 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz
<b>Shock resistance</b>	During operation	Conforming to IEC 60068-2-27 Ea: 50 g/11 ms at wall mount, half sine-wave
<b>Standards and certifications</b>		CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), EAC, CCC
<b>Compatible screens</b>		Complete range of Magelis iDisplay screens (refer to page 7/5)
<b>HMI Software</b>		<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version), Unlimited license to be ordered separately (VJDSNRTMPC) (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.
<b>References</b>		<b>HMIBSO0ND1001</b>   <b>HMIBSOCND1E01</b>
<b>Pages</b>		4/6

(1) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.

<b>Universal range</b>	
<b>Standard</b>	



*****		–
*****		*****
Intel ATOM N2600 (1.6 GHz), dual-core		
1 full-size		
CFast slot and internal SATA slot for HDD/SSD		
CFast card ≥ 16 GB	SSD ≥ 80 GB, 5-year Intel warranty and 2 million hours MTBF	–
4 GB DDR3 (4 max.)		
Windows 7 32 bits (WES 7 Premium)		–
12...24 V ~ (± 5%, 16 W)		
3.0...1.5 A		
3 Ethernet 10/100/1000 Mbps		
2 RS-232, 4 RS-232/422/485 with auto flow control		
5 USB 2.0		
High Definition Audio (HD) Line-in, Line out, Mic-in		
1 VGA + 1 HDMI		
Up to 1920 x 1200 at 85 Hz		
8 bits, to be configured by the provided iManager software (advanced users only).		
Timer with 255 levels/intervals, programmable, 1...255 s		
–		
Yes (not supported by Windows 7)		
DIN rail or desk/wall mounting		
264.5 x 68.4 x 133 mm / 10.41 x 2.69 x 5.24 in.		
Conforming to EN/IEC 60068-2-2: 0...50 °C / 32...122 °F		
Conforming to IEC 60068-2-2/ 60068-2-14: -40...85 °C / -40...185 °F		
Conforming to IEC 60068-2-6: 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz		
Conforming to IEC 60068-2-27 Ea: 50 g/11 ms at wall mount, half sine-wave		
CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), EAC, CCC		
Complete range of Magelis iDisplay screens (refer to page 7/5)		
<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version), Unlimited license to be ordered separately (VJDSNRTMPC) (1). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.		
<b>HMIBSUCND1W01</b>   <b>HMIBSUSND1W01</b>   <b>HMIBSU0ND1001</b>		
4/6		

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBS S-Box PC

#### Optimized and Universal ranges

#### Presentation

The Magelis S-Box PCs are simple industrial PCs available in Optimized and Universal ranges. These PCs are mainly used in repetitive machines and infrastructure applications that require a Microsoft Windows® operating system.

Magelis S-Box PCs offer the following benefits:

- All-in-one simple design with easy selection, ordering, and installation
- Wall-mounted with small footprint and compact enclosure
- 24/7 operation with quick and easy remote access to system monitoring
- Maintenance-free non-rotating parts
- UL60950-certified
- Tested, validated and supported in Schneider solutions

#### Overview of the range

##### Magelis HMIBS Optimized

The HMIBS Optimized range has a fanless Intel®ATOM™ N270 low-power CPU (1.6 GHz) and a non-rotating storage drive. This range, with 2 reference models, provides:

- Maximum 2 GB DDR2 RAM, mounted by default
- Connection ports: 2 USB 2.0, 2 RS-232, 1 Gigabit Ethernet, and 1 VGA port for video
- Expansion: 1 mini PCI Express® slot, half-size
- Power supply: 24 V  $\pm$  (large-scale 9...36 V)

The operating systems and storage devices are:

- **HMIBSOCND1E01**
  - Operating system: WES2009 Windows Embedded, pre-installed
  - Default storage device: 8 GB Compact Flash card which is write-protected
  - Additional free internal SATA slot for HDD or SSD
- **HMIBSO0ND1001**
  - Operating system: No
  - Default storage device: No
  - Additional free internal SATA slot for HDD or SSD

##### Magelis HMIBS Universal

The HMIBS Universal range has a fanless Intel ATOM D2600 dual-core low-power CPU (1.6 GHz) and a non-rotating storage drive. This range, with 3 reference models, provides:

- Maximum 4 GB DDR3 RAM, mounted by default
- Connection ports: 5 USB 2.0, 2 RS-232, 4 RS-232/422/485, 3 Gigabit Ethernet, HD audio ports, 1 VGA and 1 HDMI port for video
- Expansion: 1 mini PCI Express slot, full-size
- Power supply: 24 V  $\pm$  (large-scale 12...24 V)

The operating systems and storage devices are:

- **HMIBSUCND1W01**
  - Operating system: Windows 7 32-bit (WES 7 Premium full blown)
  - Default storage device: 16 GB CFAST card
  - Additional free internal SATA slot for HDD or SSD
- **HMIBSUSND1W01**
  - Operating system: Windows 7 32-bit (WES 7 Premium full blown)
  - Default storage device: 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF)
  - Additional free CFAST slot
- **HMIBSU0ND1001**
  - Operating system: No
  - Free CFAST slot and an internal SATA slot for HDD or SSD

#### Remote monitoring system for Magelis HMIBS

The Magelis HMIBS can be monitored remotely by installing the Remote Monitoring application provided in any PC. Several Magelis S-Box PCs can be monitored for:

- Managing system recovery (backup and restore) and On/Off (e.g., overnight for energy saving)
- Monitoring system parameters such as network connection, system/CPU temperatures, fan speeds and system voltages
- Configuring alerts via a popup, message, sound, or buzzer with event log entry and system shutdown
- Displaying e-mail alerts and function logs



Optimized Magelis S-Box PC



Universal Magelis S-Box PC

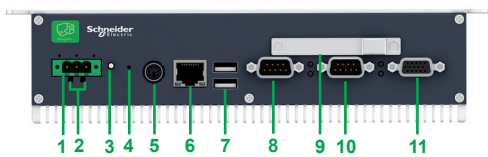


Touch screen entry  
USB ports

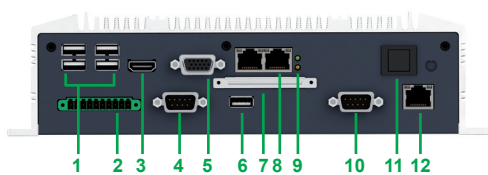
Image  
VGA or DVI



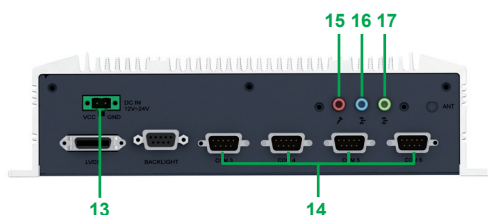
Connection of Magelis HMIBS Universal and Magelis iDisplay



Front view of Magelis HMIBS Optimized



Front view of Magelis HMIBS Universal



Rear view of Magelis HMIBS Universal

### Presentation (continued)

#### Magelis iDisplay monitor for Magelis HMIBS

The Magelis S-Box PC can use Magelis iDisplay monitor as a display screen. The Magelis iDisplay models HMIDID and MPC are 15" or 19" screens with 16 M colors, touch screen with/without keypad, and IP 65 front panel protection. They are certified for UL508, UL Hazardous and Marine locations according to the model. For more information on Magelis iDisplay screens, see page 7/5.

Each Magelis S-Box PC comprises:

- USB ports for connecting to Magelis iDisplay touch screen and keypad (USB cable provided with Magelis iDisplay).
- VGA port for connecting to Magelis iDisplay screen for analog video signals.
- In addition, the Magelis Universal S-Box PC HMIBSU has an HDMI for connecting to the DVI port of Magelis iDisplay for digital video signals (via HDMI-DVI interface **HMIYADHDMIDVIS1**).

#### HMI software support for Magelis HMIBS (1)

Magelis S-Box PCs are supported by Schneider Electric HMI software for automation. Vijeo Designer RT is pre-installed in all Magelis S-Box PCs as a Demo version. This can be upgraded to unlimited version with additional **VJDSNRTMPC** license (2). The Vijeo XD RT also runs on all Magelis S-Box PCs and can be installed from any Vijeo XD DVD. This can be upgraded to the unlimited version with an additional **HMIRTM CZLSPAZZ** license.

### Description

#### Magelis HMIBS Optimized

##### Front view

- 1 Connector for input DC power supply
- 2 Status and power supply LEDs
- 3 Power supply button
- 4 Reset button
- 5 Keyboard and mouse connector
- 6 Ethernet port 10/100/1000 Mbps
- 7 2 USB 2.0 ports (USB1 and USB2)
- 8 COM2 RS-232 port
- 9 Compact Flash memory card slot
- 10 COM1 RS-232 port
- 11 VGA port

#### Magelis HMIBS Universal

##### Front view

- 1 4 USB 2.0 ports (USB1, USB2, USB3 and USB4)
- 2 8 Digital I/O
- 3 HDMI port
- 4 COM1 RS-232 port
- 5 VGA port
- 6 USB 2.0 port
- 7 CFast memory card slot
- 8 2 Ethernet ports
- 9 Status (HDD and CFast disk) and power supply LEDs
- 10 COM2 RS-232 port
- 11 Power supply switch
- 12 Ethernet port

##### Rear view

- 13 Connector for input DC power supply
- 14 4 RS-232/422/485 with auto flow control (by BIOS setting)
- 15 MIC
- 16 LINE-IN
- 17 LINE-OUT

(1) As Magelis S-Box PC does not have SRAM, it is recommended to save data on a storage drive (USB stick or SSD) to avoid data loss.

(2) Requires Vijeo Designer V6.2 SP2 or higher version to build and download an HMI application.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBS S-Box PC

#### Optimized and Universal ranges



HMIBSOCND1E01

### Magelis HMIBS Optimized

Intel ATOM N270 single-core processor (1.6 GHz)/DDR2 RAM/DC power supply

PCI expansion slot	Operating system	Software	Storage drives and slots	DDR2 RAM	Reference	Weight kg/lb
1 mini PCI Express, half size	Windows Embedded Standard 2009 (1)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	Compact Flash ≥ 8 GB, 1 internal free slot for SSD/HDD	2 GB	HMIBSOCND1E01	4.000/8.818
1 mini PCI Express, half size	–	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	1 internal free slot for SSD/HDD	2 GB	HMIBSO0ND1001	



HMIBSUCND1W01

### Magelis HMIBS Universal

Intel ATOM N2600 dual-core processor (1.6 GHz)/DDR3 RAM/DC power supply

PCI expansion slot	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
1 mini PCI Express, full size	Windows 7 32-bit (WES 7 Premium full blown)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	CFast ≥ 16 GB, 1 internal free slot for SSD/HDD	4 GB	HMIBSUCND1W01	6.000/13.22
1 mini PCI Express, full size	Windows 7 32-bit (WES 7 Premium full blown)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	SSD Flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF), 1 free slot for CFast	4 GB	HMIBSUSND1W01	7.000/15.43
1 mini PCI Express, full size	–	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	1 internal free slot for SSD/HDD, 1 free slot for CFast	4 GB	HMIBSU0ND1001	7.000/15.43

(1) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Acrobat Reader, Microsoft® Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 - Vijeo Citect Web Client  
 - Vijeo Designer RT Demo (21-day trial version)

(2) Requires Vijeo Designer V6.2 SP2 or higher version to build and download an HMI application.

(3) Vijeo XD RT to be installed from Vijeo XD Build time DVD and activated by unlimited license HMIRTMZLSPAZZ.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBS S-Box PC

#### Separate components

Separate components					
Description	Details	Compatible with Magelis HMIBS S-Box PC ranges		Reference	Weight kg/lb
		Optimized	Universal		
<b>Storage disks, peripheral equipment</b>					
<b>SSD with mounting screws</b>	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models		<b>HMIYSSDS080S1</b>	–
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models		<b>HMIYSSDS160S1</b>	–
<b>Compact Flash card</b>	8 GB MLC, blank	All models	–	<b>HMIYCFS08S</b>	–
<b>CFast card</b>	16 GB MLC, blank	–	All models	<b>HMIYCFA16S</b>	–
<b>HDMI to DVI interface</b>	HDMI to DVI interface	–	All models	<b>HMIYADHDMIDVIS1</b>	–
<b>DIN rail adapter</b>	DIN rail adapter for S-Box PC	All models	–	<b>HMIYADBSODIN11</b>	–
		–	All models	<b>HMIYADBSUDIN21</b>	–
<b>Software</b>					
<b>Vijeo Designer RT license for 1 workstation</b>	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license.	All models		<b>VJDSNRTMPC</b>	–
<b>Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation</b>	Used to track the process variables and all operator actions, and offers visibility of the key process values.	All models (requires storage capacity ≥ 4 GB)		<b>VJDSNTRCKV60M</b>	–
<b>Vijeo XD RT license for 1 workstation</b>	Converts the 21-day trial version of Vijeo XD Demo to an unlimited license	All models		<b>HMIRTMCZLSPAZZ</b>	–





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## Magelis HMIB Box PC - Universal and Performance ranges

**Selection guide** ..... page 5/2

■ **Presentation**

- Overview of the range
  - Magelis HMIB Universal ..... page 5/4
  - Magelis HMIB Performance ..... page 5/4
  - Made-to-order Magelis HMIB ..... page 5/5
- USB accessories for HMI terminals ..... page 5/5

■ **Description**

- Magelis HMIB Universal, 1 PCI slot ..... page 5/6
- Magelis HMIB Universal and Performance, 2 PCI slots ..... page 5/6
- Magelis HMIB Performance, 5 PCI slots ..... page 5/7

■ **References**

- Magelis HMIB Universal, 1 or 2 PCI slots ..... page 5/8
- Magelis HMIB Performance, 2 or 5 PCI slots ..... page 5/8
- Separate components ..... page 5/9

■ **Substitution**

- Configured Magelis HMIB Box PC ..... page 5/10
- Equivalent product table ..... page 5/11

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIB Box PC

#### Universal and Performance ranges

Type	Universal range - 1 PCI slot	
Industrial environments	Maintenance-free	Standard



<b>Fanless</b>	★★★★★	★★★★★	★★★★★
<b>Non-rotative storage drive</b>	★★★★★	★★★★★	–
<b>CPU (1)</b>	Intel® ATOM™ N270 (1.6 GHz) 1 PCI Compact Flash card ≥ 4 GB (SLC technology)    SSD flash disk ≥ 60 GB with 2 million hours MTBF    Hard disk Enterprise 24/7 ≥ 500 GB 2 GB    2 GB    2 GB		
<b>RAM (2)</b>	2 GB		
<b>Integrated DVD-RW drive</b>	–		
<b>Slide-in rack for peripheral device</b>	1 slide-in compact rack for storage disk    1 slide-in compact rack for storage disk (Flash disk or hard disk included)		
<b>Integrated ports</b>	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top 2 RS-232C 1 DVI (VGA RGB adapter, optional)		
<b>Optional ports</b>	1 RS-232C/422/485 HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		
<b>Optional RAID PCI card</b>	–		
<b>Operating system</b>	Windows® Embedded Standard 2009	Windows XP Professional SP3	–
<b>Supply voltage</b>	24 V ~ (± 25 %) (3) Nominal current 6 A. Typical inrush current 7 A, 50 A < 300 μs		
<b>Mounting</b>	Vertical, at the back of the enclosure ("book" format) or flat (requiring fan kit HMIYBFKT11)		
<b>Overall dimensions (W x H x D in mm)</b>	82 x 270 x 251 mm/3.23 x 10.63 x 9.88 .in		
<b>Temperature</b>	during operation Conforming to IEC 61132-2, UL 508: 0...50 °C/32...122 °F (mounted vertically) or 0...45 °C/32...113 °F (mounted flat)		
<b>Vibration resistance</b>	Continuous 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)    0.125 g from 5...100 Hz Non-continuous 3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)    0.250 g from 5...100 Hz Merchant navy IACS E10 1 mm/0.04 in. amplitude from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance    –		
<b>Shock resistance</b>	During operation 15 g/11 ms conforming to IEC 60068-2-27 test Ea		
<b>Standards and certifications</b>	CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), ATEX II 3 Dust zone 22, C-Tick, GOST		
<b>Marine certification</b>	Germanischer Lloyd (Bridge Class)	–	–
<b>Compatible screens</b>	Complete range of Magelis iDisplay screens (refer page 7/5)		
<b>HMI Software</b>	<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.		
<b>References</b>	–	HMIBUFND1PF1	–
	HMIBUCND1E01	HMIBUFND1P01	HMIBUHND1P01
<b>Pages</b>	5/8		
<b>Made-to-order configuration</b>	See configured Magelis Box PC on page 5/10		

(1) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 5/10).  
 (2) For other available options (interface for backup battery, etc.) in made-to-order configuration, see pages 5/9 and 5/10.

Universal range - 2 PCI slots		Performance range - 2 PCI slots		Performance range - 5 PCI slots	
Maintenance-free	Standard	Harsh	Standard	Harsh	Standard



★★★★★	★★★★★	–	–	–	–
★★★★★	–	★★★★★	–	★★★★★	–
Intel ATOM N270 (1.6 GHz)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset			
2 (1 PCI + 1 PCI Express®)		5 (2 PCI + 3 PCI Express)			
SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB
2 GB	2 GB	4 GB	4 GB	4 GB	4 GB
1	1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)			1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (supplied) 1 slide-in rack for storage disk via adapter (optional)	
2 Ethernet 10/100/1000 Mbps		2 Ethernet 10/100/1000 Mbps			
1 USB 2.0 (1 A) on the front panel + 4x USB 2.0 (0.5 and 1 A) at the top		1 USB 2.0 (1 A) on the front panel + 4x USB 2.0 (0.5 and 1 A) at the top			
2 RS-232C		2 RS-232C			
1 DVI (VGA RGB adapter, optional)		1 DVI (VGA RGB adapter, optional)			
1 RS-232C/422/485, 1x DVI		1 RS-232C/422/485, 1x DVI			
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)			
Windows XP Professional SP3		Windows 7 Ultimate 64-bit			
24 V ~ (± 25 %) (3) Nominal current 6 A. Typical inrush current 7 A, 50 A < 300 μs					
Vertical, at the back of the enclosure ("book" format) or flat (requiring fan kit HMIYBFKT21, for Box PC HMIBU●ND2P●1)					
121 x 270 x 251 mm/4.76 x 10.63 x 9.88 .in		136 x 270 x 251 mm/5.35 x 10.63 x 9.88 .in		217 x 270 x 251 mm/8.54 x 10.63 x 9.88 .in	
Conforming to IEC 61132-2, UL 508: 0...50 °C/32...122 °F (mounted vertically) or 0...45 °C/32...113 °F (mounted flat)					
1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz
3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz
1 mm/0.04 in. from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	–	1 mm/0.04 in. from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	–	1 mm/0.04 in. from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	–
15 g/11 ms conforming to IEC 60068-2-27 test Ea					
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), ATEX II 3 Dust zone 22, C-Tick, GOST					
With additional power supply filter HMIYLFIMAR11	–	With additional power supply filter HMIYLFIMAR11	–	With additional power supply filter HMIYLFIMAR11	–
Complete range of Magelis iDisplay screens (refer page 7/5)					
<input type="checkbox"/> Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.					
HMIBUFND2PF1	–	HMIBPFDD27F1	–	HMIBPFDD57F1	–
HMIBUFND2P01	HMIBUHND2P01	HMIBPFDD2701	HMIBPHDD2701	HMIBPFDD5701	HMIBPHDD5701
5/8					
See configured Magelis Box PC on page 5/10					

(3) For an ~ supply voltage, an external Phaseo power supply can be used (see page 5/9).  
 (4) Conforming to IEC 60068-2-6 Fc.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIB Box PC

#### Universal and Performance ranges



Universal Box PC  
1 PCI



Universal Box PC/Performance Box PC  
1 PCI + 1 PCI Express



Performance Box PC  
2 PCI + 3 PCI Express

### Presentation

The Magelis HMIB Box PC offer includes products that are rugged and certified for automation applications.

With its Universal (1 or 2 PCI slots) and Performance (2 or 5 PCI slots) ranges, this Magelis Box PC is suitable for any type of use not requiring an integrated screen:

- In a maintenance-free environment: Fanless Magelis HMIB (unaffected by dust, no filters to clean, etc.) and without any rotating parts such as a hard disk. Data storage on Compact Flash card or on Flash disk offers good resistance to vibration and long life.
- In a harsh environment: Magelis HMIB without hard disk
- In a standard environment: Magelis HMIB with hard disk

In addition to the referenced offer, the flexibility offered by the modular design allows made-to-order Magelis Box PC configurations (see page 5/10). This offer is also compatible with Magelis iDisplay screens.

### Overview of the range

#### Magelis HMIB Universal (1) (2)

The Magelis HMIB Universal range is equipped with the fanless Intel®ATOM™ N270 processor (1.6 GHz) and DDR2 RAM (3).

It is specifically designed for the following environments:

- Maintenance-free environment (fanless, with solid-state storage disk):
  - **HMIBUCND1E01:**
    - 1 PCI slot/Compact Flash card/Windows® Embedded Standard 2009, etc.
  - **HMIBUFND1P01** and **HMIBUFND1PF1:**
    - 1 PCI slot, SSD flash disk, Windows XP Professional SP3, etc.
  - **HMIBUFND2P01** and **HMIBUFND2PF1:**
    - 1 PCI + 1 PCI Express® slot/Flash disk SSD/Windows XP Professional SP3, etc.
- Standard industrial environment (with hard disk):
  - **HMIBUHND1P01:**
    - 1 PCI slot/Hard disk/Windows XP Professional SP3, etc.
  - **HMIBUHND2P01:**
    - 1 PCI + 1 PCI Express slot/Hard disk/Windows XP Professional SP3, etc.

#### Magelis HMIB Performance (1) (2)

The Magelis HMIB Performance range is equipped with the Intel Core™ 2 Duo P8400 processor (2.26 GHz) + Intel GM45 Chipset and DDR3 RAM (3).

It is specifically for the following environments:

- Harsh industrial environment (with solid-state storage disk):
  - **HMIBPFDD2701** and **HMIBPFDD27F1:**
    - 1 PCI + 1 PCI Express/SSD flash disk/Windows 7 Ultimate 64-bit, etc.
  - **HMIBPFDD5701** and **HMIBPFDD57F1:**
    - 2 PCI + 3 PCI Express/SSD flash disk/Windows 7 Ultimate 64-bit, etc.
- Standard industrial environment (with hard disk):
  - **HMIBPHDD2701:**
    - 1 PCI + 1 PCI Express/Hard disk/Windows 7 Ultimate 64-bit, etc.
  - **HMIBPHDD5701:**
    - 2 PCI + 3 PCI Express/Hard disk/Windows 7 Ultimate 64-bit, etc.

(1) Types of PCI slot: half-format PCI 2.2 and half-format PCI Express (1x for Magelis Box PC with 1 or 5 slots, 4x for Magelis Box PC with 2 slots).

(2) For description, see pages 5/6 and 5/7.

(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 5/10).

## Presentation (continued)

### Overview of the range (continued)

#### Made-to-order Magelis HMIB (1)

On Universal and Performance Magelis HMIB bases, you can customize the CPU by selecting:

- the Compact Flash card and the RAM capacity
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional assembled options: PCI RAID card with 2 redundant hard disks (2), battery-backed power supply interface module, etc.

For more information on the HMIPCCB1 offer, see page 5/10.

## USB accessories for HMI terminals

Magelis USB accessories are designed to expand the range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals (3).

The Magelis USB accessories supported by Magelis HMIB include:

- Harmony XB5S biometric USB switch
- Magelis HMIZ illuminated USB switch

For more information on HMI USB accessories, please refer to our website [www.schneider-electric.com/USB](http://www.schneider-electric.com/USB) accessories for Magelis terminals.

(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express (1x for Magelis Box PC with 1 or 5 slots, 4x for Magelis Box PC with 2 slots).

(2) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

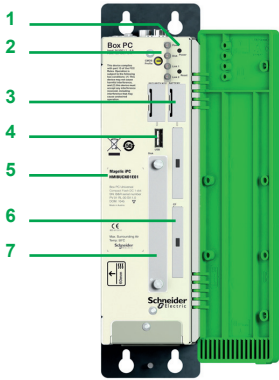
(3) Requires Vijeo Designer software running on Magelis Box PC, not compliant with WES operating systems.

## Industrial PCs

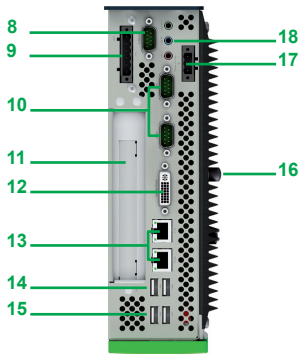
### Magelis iPCs for automation

#### Magelis HMIB Box PC

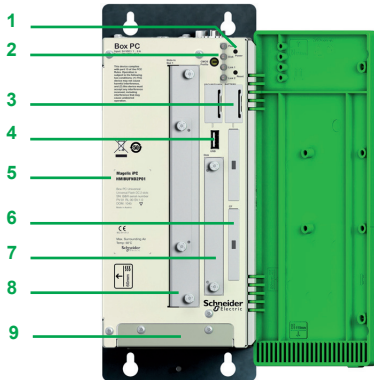
#### Universal and Performance ranges



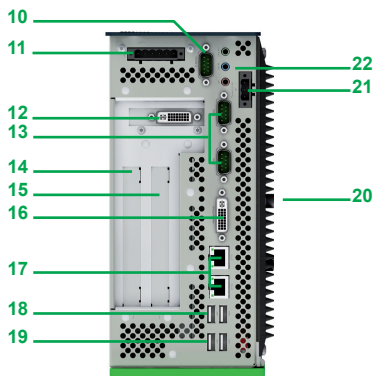
Front panel of Magelis Box PC, door open  
1 PCI slot



Top panel of Magelis Box PC  
1 PCI slot



Front panel of Magelis Box PC, door open  
2 PCI slots



Top panel of Magelis Box PC  
2 PCI slots

### Description

#### Magelis HMIB Universal, 1 PCI slot

##### Front panel, door open

- 1 2 pushbuttons: 1 for power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Slot for Compact Flash card:
  - With Compact Flash (SLC technology)  $\geq$  4 GB (Box PC **HMIBUCND1E01**)
  - Free slot (Box PC **HMIBUFND1P●1**, Box PC **HMIBUHND1P01**)
- 7 Slide-in compact rack:
  - Free slot (Box PC **HMIBUCND1E01**)
  - With SSD flash disk  $\geq$  60 GB with 2 million hours MTBF (Box PC **HMIBUFND1P●1**)
  - With Enterprise 24/7 hard disk  $\geq$  500 GB (Box PC **HMIBUHND1P01**)

##### Top panel

- 8 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (1)
- 9 Free slot for battery-backed power supply interface module (2)
- 10 2 RS-232C ports
- 11 Half-format PCI 2.2 slot
- 12 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 13 2 Ethernet 10/100/1000 Mbps ports
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 2 USB 2.0 ports (1 A max.)
- 16 Heat sink (3)
- 17 Connector for the CPU 24 V  $\sim$ /6 A power supply (4)
- 18 Micro input, line input/line output

#### Magelis HMIB Universal and Performance, 2 PCI slots

##### Front panel, door open

- 1 2 pushbuttons: 1 for the power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Free slot for Compact Flash card
- 7 Slide-in compact rack:
  - With SSD flash disk  $\geq$  60 GB with 2 million hours MTBF (Box PC **HMIB●F●D2●●1**)
  - With Enterprise 24/7 hard disk  $\geq$  500 GB (Box PC **HMIB●H●D2●●1**)
- 8 Slide-in rack with the DVD-RW drive included (5). This can be used for an additional storage disk with adapter (**HMIYADSLIDEIN11**) (1)
- 9 Access to the fan filters (7) (Box PC **HMIBP●DD●7●1**)

##### Top panel

- 10 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (1)
- 11 Free slot for battery-backed power supply interface module (2)
- 12 Free slot for additional DVI interface (**HMIYINDVIRGB11**) (1)
- 13 2 RS-232C ports
- 14 Half-format PCI Express 4x slot
- 15 Half-format PCI 2.2 slot
- 16 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 17 2 Ethernet 10/100/1000 Mbps ports
- 18 2 USB 2.0 ports (0.5 A max.)
- 19 2 USB 2.0 ports (1 A max.)
- 20 Heat sink (3)
- 21 Connector for the CPU 24 V  $\sim$ /6 A power supply (4)
- 22 Micro input, line input/line output

(1) To be ordered separately (see page 5/9).

(2) To be ordered separately in made-to-order configurations (see page 5/10).

(3) For installation, please refer to the product data sheets of respective product references

(4) Consumption excluding additional PCI card. For an  $\sim$  supply voltage, an external Phaseox power supply can be used (see page 5/9).

(5) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial PC and Display).

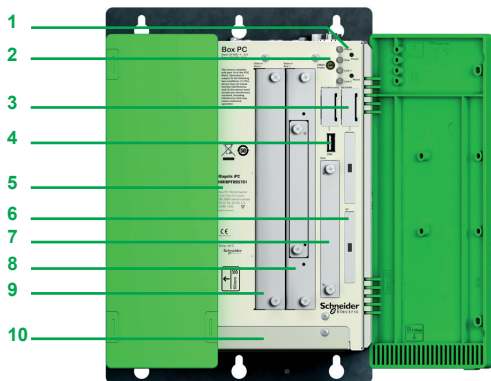
(6) Fans can be replaced by the user using the Box PC fan kit (to be ordered separately, see page 5/9).

# Industrial PCs

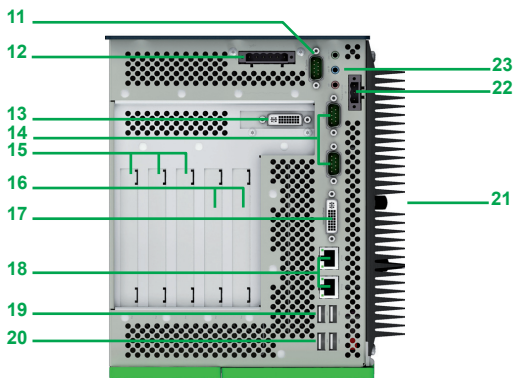
## Magelis iPCs for automation

### Magelis HMIB Box PC

#### Performance range



Front panel of Magelis Box PC, door open  
5 PCI slots



Top panel of Magelis Box PC  
5 PCI slots

#### Description (continued)

##### Magelis HMIB Performance, 5 PCI slots

###### Front panel, door open

- 1 2 pushbuttons: 1 for power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Free slot for Compact Flash card
- 7 Slide-in compact rack:
  - With SSD flash disk  $\geq$  60 GB with 2 million hours MTBF (Box PC **HMIBPFDD5701**)
  - With Enterprise 24/7 hard disk  $\geq$  500 GB (Box PC **HMIBPHDD5701**)
- 8 Slide-in rack with the DVD-RW drive included (1)
- 9 Slide-in rack for additional storage disk with adapter (**HMIYADSLIDEIN11**) (2)
- 10 Access to the fan filters (3)

###### Top panel

- 11 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (2)
- 12 Free slot for battery-backed power supply interface module (4)
- 13 Free slot for additional DVI interface (**HMIYINDVIRGB11**) (2)
- 14 2 RS-232C ports
- 15 3 half-format PCI Express 1x slots
- 16 2 half-format PCI 2.2x slots
- 17 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 18 2 Ethernet 10/100/1000 Mbps ports
- 19 2 USB 2.0 ports (0.5 A max.)
- 20 2 USB 2.0 ports (1 A max.)
- 21 Heat sink (5)
- 22 Connector for the CPU 24 V  $\sim$ /6 A power supply (6)
- 23 Micro input, line input/line output

(1) Operating temperature details available on our website  
[www.schneider-electric.com/HMI/IndustrialPCandDisplay](http://www.schneider-electric.com/HMI/IndustrialPCandDisplay).

(2) To be ordered separately (see page 5/9).

(3) Fans can be replaced by the user using the Box PC fan kit (to be ordered separately, see page 5/9).

(4) To be ordered separately in made-to-order configurations (see page 5/10).

(5) Refer to the installation precautions available on our website  
[www.schneider-electric.com/HMI/IndustrialPCandDisplay](http://www.schneider-electric.com/HMI/IndustrialPCandDisplay).

(6) Consumption excluding additional PCI card. For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 5/9).

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIB Box PC

#### Universal and Performance ranges



HMIBU●ND1●●1

### Magelis HMIB Universal, 1 or 2 PCI slots

Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM/24 V ~ supply voltage (1)

PCI slot	Operating system	Software	Storage disk	DDR2 RAM (4)	Reference	Weight kg/lb
<b>For maintenance-free environment</b>						
1 PCI	Windows Embedded Standard 2009 (2)	Vijeo Designer RT Demo (3)	Compact Flash ≥ 4 GB (SLC technology)	2 GB	HMIBUCND1E01	4.000/ 8.818
	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND1P01	4.000/ 8.818
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND1PF1	4.000/ 8.818
1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND2P01	5.000/ 11.023
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND2PF1	5.000/ 11.023



HMIBU●ND2P●1  
HMIBP●DD27●1

<b>For standard industrial environment</b>						
1 PCI	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	2 GB	HMIBUHND1P01	4.000/ 8.818
1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	2 GB	HMIBUHND2P01	5.000/ 11.023

### Magelis HMIB Performance, 2 or 5 PCI slots

Intel Core™ 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM/24 V ~ supply voltage (1)

PCI slot	Operating system	Software	Storage disk	DDR3 RAM (4)	Reference	Weight kg/lb
<b>For standard industrial environment</b>						
1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	4 GB	HMIBPHDD2701	6.000/ 13.227
	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	4 GB	HMIBPHDD5701	7.000 / 15.432
2 PCI + 3 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD2701	6.000/ 13.227
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD27F1	6.000/ 13.227
		Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD5701	7.000/ 15.432
2 PCI + 3 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD5701	7.000/ 15.432
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD57F1	7.000/ 15.432



HMIBP●DD57●1

(1) For an ~ supply voltage, an external Phaseo power supply can be used (see page 5/9).  
 (2) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Acrobat Reader, Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 - Vijeo Citect Web Client  
 - Vijeo Designer RT Demo (3)  
 (3) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 5/9). Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.  
 (4) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 5/10).



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIB Box PC

#### Separate components

Separate components					
Description	Details	Compatible with Magelis HMIB Box PC ranges:		Reference	Weight kg/lb
		Universal	Performance		
<b>Storage disks, peripheral equipment, kits</b>					
<b>Hard disk</b>	500 GB, blank (Enterprise 24/7)	All models		<b>HMIYHDD050011</b>	–
<b>SSD flash disk with 2 million hours MTBF</b>	60 GB, blank	All models		<b>HMIYSDD006011</b>	–
	128 GB, blank	All models		<b>HMIYSDD012011</b>	–
<b>Compact Flash card</b> (SLC technology)	2 GB, blank	All models		<b>HMIYCFS0211</b>	–
	4 GB, blank	All models		<b>HMIYCFS0411</b>	–
	8 GB, blank	All models		<b>HMIYCFS0811</b>	–
<b>DVD-RW drive for slide-in rack (1)</b>	CD-RW and DVD-RW reader/writer	Box PC, 2 PCI and 5 PCI slots		<b>HMIYDRDVRW11</b>	–
<b>Slide-in adapter for storage disk (7)</b>	Used to insert a hard disk or an SSD flash disk in a slide-in rack	Box PC, 2 PCI and 5 PCI slots		<b>HMIYADSLIDEIN11</b>	–
<b>Additional DVI interface</b>	Provides a second DVI interface	Box PC, 2 PCI and 5 PCI slots		<b>HMIYINDVIRGB11</b>	–
<b>DVI/VGA RGB adapter</b>	For connecting an RGB screen to the integrated DVI port	All models		<b>HMIYADDVIRGB11</b>	–
<b>RAID PCI card with 2 redundant hard disks (1)</b>	PCI card equipped with two redundant hard disks Enterprise 24/7 ≥ 500 GB	All models		<b>HMIYRAIDPCI11</b>	–
<b>Hard disk for RAID PCI card</b>	Replacement hard disk for RAID PCI card <b>HMIYRAIDPCI11</b>	HMIB + RAID PCI card <b>HMIYRAIDPCI11</b>		<b>HMIYRAIDD050011</b>	–
<b>Additional serial link interface</b>	RS-232C/422/485 serial link	All models		<b>HMIYBINSL11</b>	–
<b>Backup power supply kit</b>	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m cordset	Magelis Box PC configured with battery-backed power supply interface module (2)		<b>HMIYUPSKT11</b>	–
<b>Power supply filter for Marine certification</b>	Necessary for compliance with Marine certification.	Box PC: <b>HMIBUCND1E01</b> and <b>HMIBUFND●P●1</b>	–	<b>HMIYLFIMAR11</b>	–
<b>Maintenance kit for Box PC</b>	Includes: ■ 1 x 3-way removable connector for 24 V ∓ power supply ■ 15 replacement filters for fan, including: □ 5 for Magelis Box PC - 1 PCI □ 5 for Magelis Box PC - 2 PCI □ 5 for Magelis Box PC - 5 PCI	All models		<b>HMIYBMKT11</b>	–
<b>Fan kit for HMIB</b>	Enables: ■ Replacement of fans by the user ■ Flat mounting of fanless Magelis Box PC (3)	Box PC, 1 PCI		<b>HMIYBFKT11</b>	–
		Box PC, 2 PCI		<b>HMIYBFKT21</b>	–
		Box PC, 5 PCI		<b>HMIYBFKT51</b>	–
<b>Software</b>					
<b>Vijeo Designer RT license for 1 workstation</b>	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license.	All models		<b>VJDSNRTMPC</b>	–
<b>Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation</b>	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)		<b>VJDSNTRCKV60M</b>	–
<b>External Phaseo power supply</b>					
<b>Phaseo regulated switch mode power supply ABL 8</b> Rail mounting	Input voltage: 100...120 V/200...500 V ~ (4) Output voltage: 24 V ∓ Power: 120 W	All models		<b>ABL8RPS24050</b> (5) (6)	0.700/ 1.543
<b>Phaseo regulated switch mode power supply ABL 4</b> Rail mounting	Input voltage: 100...230 V ~ (4) Output voltage: 24 V ∓ Power: 120 W	All models		<b>ABL4RSM24050</b> (5) (6)	0.500/ 1.102

(1) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(2) For configured Magelis Box PC, see page 5/10.

(3) Operating temperature for flat mounting: 0...45 °C (see pages 5/2 and 5/3).

(4) Single-phase connection. Phase-to-phase connection possible on certain American line supplies. For more information, please contact our Customer Care Center.

(5) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please refer to the "Phaseo power supply and transformer" catalog on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(6) To order this reference, please contact our Customer Care Center.

(7) The user has to check that the third-party drives are compliant.

# Industrial PCs

## Magelis iPCs for automation

### Configured Magelis HMIB Box PC

#### Configured Magelis HMIB Box PC

With the “configured PC” service, Schneider Electric offers a vast number of configuration combinations for Magelis PCs.

This service, available exclusively from our Customer Care Center, allows users to configure a certified product suitable for specific automation applications and environments, based on Universal and Performance Magelis Box PCs.

Our Customer Care Center draws up:

- the complete parts list for the configured Magelis HMIB
- the selling price
- the complete reference (root + code which varies according to the configuration)
- the purchase order

#### Ordering procedure for a configured Magelis HMIB

- 1 Please contact our Customer Care Center.
- 2 State the reference root **HMIPCCB1** corresponding to a request for a configured Magelis Box PC. It will be completed with the variable part of the reference, once configuration is complete.
- 3 Configure your Magelis Box PC (see table below).
- 4 Confirm your order.

#### References

Description	Reference	Weight kg/lb
<b>Configured Magelis HMIB</b> (1)	Reference root to be stated to our Customer Care Center. The configuration should be made up from the components below.	<b>HMIPCCB1</b> (2) —

Description	Available on Magelis Box PC base		Reference	Weight kg/lb
	Universal	Performance		
<b>Processor</b>	Intel ATOM N270 (1.6 GHz)	Intel Core™ 2 Duo P8400 processor (2.26 GHz)		
<b>DDR2 RAM</b>		DDR3 RAM		
<b>Supply voltage</b>	24 V $\overline{\text{---}}$ supply voltage	24 V $\overline{\text{---}}$ supply voltage		
<b>RAM</b>	3 GB max. (DDR2)	8 GB max. (DDR3)	(2)	—
<b>Peripheral storage devices</b>	Compact Flash card 8 GB max. (SLC technology) Up to 2 SSD flash disks $\geq$ 128 GB with 2 million hours MTBF Up to 2 Enterprise 24/7 hard disks $\geq$ 500 GB			
<b>Other peripheral device</b>	DVD-RW drive			
<b>PCI slot configuration</b>	1 PCI or 1 PCI Express 1 PCI + 1 PCI Express or 2 PCI 2 PCI + 3 PCI Express or 4 PCI + 1 PCI Express			
<b>Operating systems</b>	Windows Embedded Standard 2009 Windows Embedded Standard 7 32-bit Windows XP PRO SP3 Windows 7 Ultimate 32-bit Windows 7 Ultimate 64-bit			
<b>Software</b>	Vijeo Designer RT Vijeo Citect			
<b>Assembled options</b>	RAID PCI card with 2 redundant hard disks Interface module for backup power supply required for the HMIYUPSKT11 backup power supply kit (see page 5/9) Additional RS-232C/422/485 serial link interface Additional DVI interface (needs a configuration with 2 or 5 PCI/PCI Express slots)			

(1) Please contact our Customer Care Center.

(2) The reference for configured Magelis Box PCs is made up of a root (HMIPCCB1) followed by a variable part generated during configuration.

# Industrial PCs

## Magelis iPCs for automation

### Equivalent product table

Old industrial PCs		Replaced by Magelis HMIB Box PCs	
Description	Reference	Description	References
<b>Magelis Smart Box</b>		<b>Magelis HMIB (1 PCI slot)</b>	
Magelis Smart Box 100...240 V ~	MPCSN01NAJ00T	Universal Magelis HMIB	HMIBUCND1E01 + Phaseo power supply (1)
Magelis Smart Box 24 V ---	MPCSN01NDJ00T	Universal Magelis HMIB	HMIBUCND1E01
<b>Magelis Compact PC Box (1 PCI slot)</b>		<b>Magelis HMIB (1 PCI slot)</b>	
Magelis Compact PC Box 100...240 V ~	MPCKN02NAX00N	Universal Magelis HMIB	HMIBUHND1P01 + Phaseo power supply (1)
<b>Magelis Flex PC Box F (2 PCI slots)</b>		<b>Magelis HMIB (2 PCI slots)</b>	
Magelis Flex PC Box (Celeron M) 100...240 V ~	MPCFN02NAX00N	Universal Magelis HMIB	HMIBUHND2P01 + Phaseo power supply (1)
Magelis Flex PC Box (Celeron M) 24 V ---	MPCFN02NDX00N	Universal Magelis HMIB	HMIBUHND2P01
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCFN05NAX00N	Performance Magelis HMIB	HMIBPHDD2701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 24 V ---	MPCFN05NDX00N	Performance Magelis HMIB	HMIBPHDD2701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCFN05MAX00N	Performance Magelis HMIB	HMIBPFDD2701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ Vijeo Citect Full 500 I/O	MPCFN05MAX00V	Performance Magelis HMIB Vijeo Citect Full 500 I/O	HMIBPFDD27F1 + Phaseo power supply (1)
<b>Magelis Flex PC Box H (4 PCI slots)</b>		<b>Magelis HMIB (5 PCI slots)</b>	
Magelis Flex PC Box (Celeron M) 100...240 V ~	MPCHN02NAX00N	Performance Magelis HMIB	HMIBPHDD5701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCHN05NAX00N	Performance Magelis HMIB	HMIBPHDD5701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ with backup battery	MPCHN05NBX00N	Configured Magelis HMIB (2)	HMIPCCB1B5CB26K10N + HMIYUPSKT11 kit + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 24 V ---	MPCHN05NDX00N	Performance Magelis HMIB	HMIBPHDD5701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCHN05MAX00N	Performance Magelis HMIB	HMIBPFDD5701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ Vijeo Citect Full 500 I/O	MPCHN05MAX00V	Performance Magelis HMIB Vijeo Citect Full 500 I/O	HMIBPFDD57F1 + Phaseo power supply (1)

(1) ABL8RPS24050 or ABL4RSM24050 Phaseo power supply (see page 5/9).  
 (2) See page 5/10.



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## Magelis HMIR Rack PC - Optimized, Universal and Performance ranges

*Selection guide* ..... page 6/2

### ■ Presentation

- Overview of the range
  - Magelis HMIR Optimized 2U ..... page 6/4
  - Magelis HMIR Universal 2U ..... page 6/4
  - Magelis HMIR Performance 4U ..... page 6/5
- Storage drive trays and redundant Raid HDD ..... page 6/5
- Remote system monitoring of Magelis HMIR ..... page 6/5
- Magelis iDisplay monitor for Magelis HMIR ..... page 6/6
- Software bundles for Magelis HMIR ..... page 6/6
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### ■ Description

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### ■ References

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- Magelis HMIR Universal 2U ..... page 6/10
- Magelis HMIR Performance 4U ..... page 6/10
- Separate components ..... page 6/11

# Industrial PCs

## Magelis™ iPCs for automation

### Magelis HMIR Rack PC

Optimized, Universal and Performance ranges

Type (1)	Optimized PC 2U range
Industrial environments	Control rooms and labs



<b>CPU</b>	Processor 3 <sup>rd</sup> gen	Intel®Core G540 (2.5 GHz), dual core	Intel iCore G850 (2.9 GHz), dual core
	Motherboard Micro ATX/ATX	Micro ATX	
	PCI Express® slot/PCI	2 PCI Express (x8) + 1 PCI	
	Storage	1 internal slot (SATA3) + 2 hot swap trays (SATA2)	
	Slots	1 HDD ≥ 500 GB consumer, in internal slot with OS	
	Drives	–	1 HDD ≥ 500 GB enterprise 24/7, in internal slot
	RAM (max. 32 GB) (2)	2 GB DDR3 in 1 slot	
<b>Operating system</b>		Windows® 7 32-bit (WES 7 Premium full blown)	Windows 7 64-bit (WES 7 Premium full blown)
<b>Supply voltage</b>		240 V ~ (300 W single power supply)	
<b>Cooling method</b>		3 fans, user exchangeable with fan speed control to reduce noise	
<b>Interface</b>	Ethernet	2 Ethernet 10/100/1000 Mbps	
	Serial ports	2 RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)	
	USB ports	2 USB 2.0, 4 USB 3.0	
	Audio	2 (Mic, line-out)	
	Video	1 VGA + 1 DVI	
	Interface	VGA: Up to 2048 x 1536 at 60 Hz, DVI: Up to 1920 x 1200 at 60 Hz	
	Resolution	1 DVD-RW drive	
	DVD-RW drive	System reset output, programmable 1...255 s/min	
	Watchdog timer	Yes	
	Reset button, buzzer, Case-open switch		
<b>Mounting</b>		2U in 19" HMIR enclosure (1)	
<b>Overall dimensions (W x H x D)</b>		482 x 88.4 x 481.4 mm/18.98 x 3.48 x 18.95 in.	
<b>Degree of protection</b>		IP 40	
<b>Temperature</b>	During operation	Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F	
	During storage	Conforming to IEC 60068-2-2: -20...60 °C/-4...140 °F	
<b>Humidity</b>	During operation	Conforming to IEC 60068-2-78: 10...85% at 40 °C/104 °F, non-condensing	
	During storage	Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing	
<b>Vibration resistance</b>	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	
<b>Shock resistance</b>	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	
<b>Standards and certifications</b>		CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), CCC, EAC	
<b>Compatible screens</b>		Complete range of Magelis iDisplay screens (refer to page 7/5)	
<b>Software</b>	Vijeo Designer (3) and Vijeo XD Run Time Demo	<input type="checkbox"/> Vijeo Designer Run Time Demo (21-day trial version) to be installed from Software DVD. Unlimited license to be ordered separately (3). <input type="checkbox"/> Vijeo XD Run Time demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.	
	Bundle (validated and supported) (5)	–	
<b>References</b>		HMIRXOHC3W01	HMIRXOHC3001
	Windows Server 2008 Standard R2		HMIRSOHPA3W01
	Windows Server 2012 R2		
<b>Pages</b>		6/10	

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.  
 (2) 4 RAM slots available which are user accessible.  
 (3) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.

Universal PC 2U range	Performance PC 4U range
Control rooms and labs	



Intel i3-2120 processor (3.3 GHz), dual core	Intel Xeon™ E3-1225 processor (3.1 GHz), quad core				
Micro ATX	ATX				
2 PCI Express (x16) + 1 PCI	Up to 7 slots: 4 PCI Express (x16) + 3 PCI (including 1 PCI slot used for default removable audio connections)				
4 front hot swap trays (2 SATA2 + 2 SATA3)	1 internal slot (SATA3) + 4 hot swap trays (SATA2)				
1 HDD ≥ 500 GB enterprise 24/7, in front tray with OS	1 HDD ≥ 500 GB enterprise 24/7, in front tray with OS				
1 SSD ≥ 80 GB in internal slot with OS (4)	1 SSD ≥ 80 GB in internal slot with OS (4)				
4 GB DDR3 in 1 slot	8 GB DDR3 in 2 slots				
	4 GB DDR3 in 1 slot				
Windows 7 64-bit (Ultimate Multi language)	Windows Server R2 (5 clients)				
240 V ~ (300 W single power supply)	240 V ~ (500 W redundant power supply)				
3 fans, user exchangeable with fan speed control to reduce noise	2 fans, user exchangeable with fan speed control to reduce noise				
2 Ethernet 10/100/1000 Mbps	2 Ethernet 10/100/1000 Mbps				
2 RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)	2 RS-232 (+ 4 optional with additional HMIYRINSL41)				
2 USB 2.0, 4 USB 3.0	4 USB 2.0, 2 USB 3.0				
2 (Mic, line-out)	2 (Mic, line-out), default in 1 PCI slot				
1 VGA + 1 DVI					
VGA: Up to 2048 x 1536 at 60 Hz, DVI: Up to 1920 x 1200 at 60 Hz					
1 DVD-RW drive					
System reset output, programmable 1...255 s/min					
Yes					
2U in 19" HMIR enclosure (1)	4U in 19" HMIR enclosure (1)				
482 x 88.4 x 523.8 mm/18.98 x 3.48 x 20.68 in.	482 x 172.7 x 523.8 mm/18.98 x 6.8 x 20.68 in.				
IP 40					
Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F					
Conforming to IEC 60068-2-2: -40...70 °C/-40...158 °F					
Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing					
Conforming to IEC 60068-2-78: 10...95% at 60 °C/140 °F, non-condensing					
Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)					
Conforming to IEC 60068-2-27: 10 g/11 ms, half sine wave (except for HDD drive)					
CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), CCC, EAC					
Complete range of Magelis iDisplay screens (refer to page 7/5)					
–	Vijeo Citect DVD for SCADA applications	–	PES leaflet	Vijeo Citect DVD for SCADA applications	PES leaflet with Windows Server 2012 R2 only
HMIRSUH3A3701	HMIRSUS3A3701	HMIRSPXA6701	HMIRSPXA67P1	HMIRSPFXA6701	HMIRSPFXR6702
					–
					HMIRSPSXR6S01
					HMIRSPSXR6T01
6/10					

(4) With 5-year manufacturers warranty and 2 million hours MTBF.  
 (5) Additional software license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### Optimized, Universal and Performance ranges

#### Presentation

Magelis HMIR Rack PCs are industrial PCs that can be easily installed in a 19" rack enclosure of an automation control room. The HMIRs have:

- Embedded fan speed control for reduced noise
- Hot swappable drive trays
- Optional redundant RAID hard drive
- Remote system monitor for remote access
- Magelis iDisplay for display screen

The Rack PCs are tested, validated and supported by Schneider Electric Plant StruXture software: Vijeo Designer and Vijeo XD HMI software, Vijeo Citect, and PES Engineering. These PCs offer 4 years of service and 4 years minimum of commercial availability. They can also be extended and substituted to new compliant models.

The Magelis HMIR comprises the following ranges which are UL60950-certified for the various requirements of a plant solution:

- Optimized Rack PC 2U (1): for operator stations and some dedicated applications in clean areas of industrial plants or labs
- Universal Rack PC 2U (1): for local SCADA and operator stations
- Performance Rack PC 4U (1): for Engineering and SCADA servers with redundant power supply and server operating system according to model

#### Overview of the range

##### Magelis HMIR Optimized 2U (1)

The Optimized HMIRXO Rack PC has an Intel iCore G540 dual-core CPU (2.5 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (mounted by default), user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express® (x8), 1 PCI
- Connection ports: 6 USB 2.0 ports, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA and 1 DVI for video
- 1 optical DVD-RW drive
- Operating systems and storage devices available are:
  - **HMIRXOHC3W01**: Windows® 7 32-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
  - **HMIRXOHC3001**: No operating system and HDD
- Power supply: 110...240 V ~ 300 W

The Optimized HMIRSO Rack PC has an Intel iCore G850 dual core CPU (2.9 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (default mounted), user expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express (x8), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA, 1 DVI and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
- Power supply: 110...240 V ~ 300 W

##### Magelis HMIR Universal 2U (1)

The Universal HMIRSU Magelis Rack PC has an Intel®i3-2120 dual core CPU (3.3 GHz) on a Micro ATX motherboard, with:

- 4 GB DDR3 RAM (default mounted), user expandable up to 32 GB in 4 slots
- 3.5" storage slots: 2 external SATA2 and 2 external SATA4 trays
- Free expansions: 3 slots for 2 PCI Express (x16), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, Audio ports, 1 VGA, 1 DVI and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (Ultimate multi-language installed)
- Storage devices available are:
  - **HMIRSUH3A3701**: 1 x 500 GB Enterprise 24/7 HDD in a tray slot
  - **HMIRSUS3A3701**: 1 x 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF) pre-installed in a tray slot (2)
- Power supply: 110...240 V ~ 300 W

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) Recommended for SCADA applications and delivered with Vijeo Citect DVD. For more information, see page 6/6.



Optimized Magelis Rack PC



Universal Magelis Rack PC



Performance Magelis Rack PC

#### Presentation (continued)

##### Magelis HMIR Performance 4U (1)

The Performance HMIRSP Rack PC has an Intel Xeon 1225 quad-core CPU (3.1 GHz) on a ATX motherboard, with:

- RAM, user expandable up to 32 GB in 4 slots
- 3.5" storage slots : 1 internal SATA3 and 4 free external trays SATA2
- Expansions: 4 PCI Express (x16) , 3 PCI with 1 PCI slot used for removable audio connections
- Connection ports: 4 USB 2.0, 2 USB 3.0, 1 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA and 1 DVI port for video
- 1 optical DVD-RW drive

According to HMIRSP models, various default RAMs, storage devices, operating systems, power supplies and software bundles are available:

- **HMIRSPHXA6701**: 4 GB DDR3 RAM (default mounted), 1 HDD 500 GB Enterprise 24/7 in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPHXA67P1** (2): 8 GB DDR3 RAM (default mounted), 1 HDD 500 GB Enterprise 24/7 in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPFXA6701** (3): 4 GB DDR3 RAM (default mounted), 1 SSD 80 GB (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPFXR6702** (3): 4 GB DDR3 RAM (default mounted), 1 SSD 80 GB (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, redundant AC power supply 500 W
- **HMIRSPSXR6S01** (4): 8 GB ECC RAM (default mounted), 2 HDD 500 GB Enterprise 24/7 in redundant RAID configuration installed in 2 tray slots, Windows server 2008 standard R2 operating system including 5 clients, redundant AC power supply 500 W
- **HMIRSPSXR6T01** (4): 8 GB ECC RAM (default mounted), 2 HDD 500 GB Enterprise 24/7 in redundant RAID configuration installed in 2 tray slots, Windows server 2012 R2 operating system including 5 clients, redundant AC power supply 500 W

#### Storage drive trays and redundant Raid HDD

Magelis HMIRs have hot swappable front trays for storage devices. These trays can be used for a redundant Raid HDD configuration. The Rack PC chipset supports Intel Rapid Storage Technology with internal RAID feature. So when 2 HDDs are available in trays, the RAID can be configured in 2 steps:

- 1 Assign RAID with configuration menus in the BIOS.
- 2 Adjust the RAID configuration options in the Intel Rapid Storage software provided.

#### Remote monitoring system for Magelis HMIR

Magelis HMIRs can be monitored remotely by installing the Remote Monitoring application provided in any PC. Several Magelis Rack PCs can be monitored for:

- Managing system recovery (backup and restore) and On/Off (e.g., overnight for energy saving)
- Monitoring system parameters such as network connection, system/CPU temperatures, fan speeds and system voltages
- Configuring alerts via a popup, message, sound, or buzzer with event log entry and system shutdown
- Displaying e-mail alerts and function logs

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) Dedicated model for running PlantStruxure Process Expert as an engineering workstation. For more information, see page 6/6.

(3) Recommended for SCADA applications and delivered with Vijeo Citect DVD. For more information, see page 6/6.

(4) Dedicated model for Windows Server operating system.

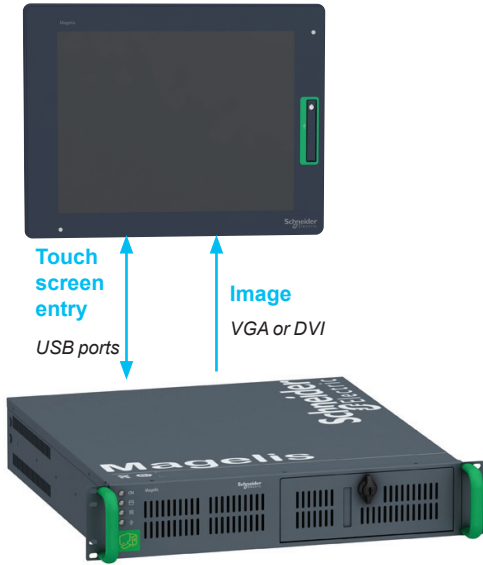


# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### Optimized, Universal and Performance ranges



Connection between Magelis Optimized Rack PC and Magelis iDisplay

#### Presentation (continued)

##### Magelis iDisplay monitor for Magelis HMIR

Magelis Rack PCs can use a Magelis iDisplay monitor as a display screen by connecting via USB, VGA, or DVI ports. This monitor can be mounted in the cut-out that is created in the front of an enclosure door.

The Magelis iDisplay models HMIDID and MPC are 15" or 19" screens, with 16 M colors, touch screen with/without keypad, and IP 65 front panel protection. They are certified for UL508, UL Hazardous and Marine locations according to the model. For more information on Magelis iDisplay screens, see page 7/5.

##### Software bundles for Magelis HMIR

###### Vijeo Designer/Vijeo XD and Magelis Rack PC bundles (1)

Magelis Rack PCs are supported by Schneider Electric HMI software for automation. Vijeo Designer RT or Vijeo XD RT can be installed from the Vijeo Designer or Vijeo XD DVD included with Magelis HMIRs. Vijeo Designer RT can be upgraded to the unlimited version with an additional **VJDSNRTMPC** license (2). Vijeo XD can also be upgraded to the unlimited version with an additional **HMIRTMCZLSPAZZ** license.

###### Vijeo Citect SCADA and Magelis HMIR bundles

The Vijeo Citect SCADA and Magelis HMIR bundle, recommended for SCADA applications comprises:

- Dedicated models **HMIRSUS3A3701**, **HMIRSPFXA6701** and **HMIRSPFXR6702** delivered with 4 GB RAM, 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF, allowing numerous read/write operations), and Windows 7 64-bit operating system
- Vijeo Citect DVD
- Recommended user upgrade of default 4 GB RAM in 1 slot with installation of additional **HMIYPRAM3040R1** 4 GB RAM DDR3 expansion in 2<sup>nd</sup> slot (3)
- Licenses for software activation have to be ordered separately

###### PlantStruxure Process Expert and Magelis HMIR bundle

The PlantStruxure Process Expert and Magelis HMIR (used as an engineering workstation) bundle comprises:

- Dedicated models:
  - **HMIRSPHXA67P1** with 8 GB RAM (default mounted) and Windows 7 64-bit operating system
  - **HMIRSPSXR6T01** with 8 GB RAM (default mounted) and Windows Server 2012 R2
- Leaflet with instructions for downloading Process Expert software (PES) from the website
- PES licenses for software activation have to be ordered separately. For more information, please contact our Customer Care Center
- Additional part numbers with pre-installed PES software are available in the PES catalog

##### Actassi 19" rack enclosure for Magelis HMIR mounting

Magelis Rack PCs can be mounted on Actassi 19" Rack enclosures. Depending on the Rack PC model weight, additional mounting accessories such as fixed slides/long slides may be required. For more information on Actassi 19" enclosures and mounting accessories, please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).

(1) As Magelis Rack PC does not have SRAM, it is recommended to save data on a storage drive (USB stick or SSD) to avoid data loss.

(2) Vijeo Designer RT is not supported on the Windows Server operating system.

(3) 8 GB RAM is recommended for running Vijeo Citect as a server.

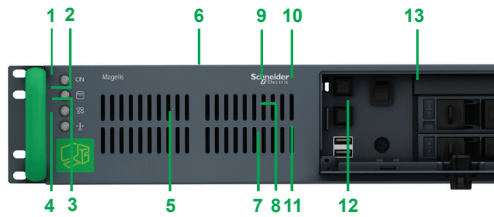
## Description

# Industrial PCs

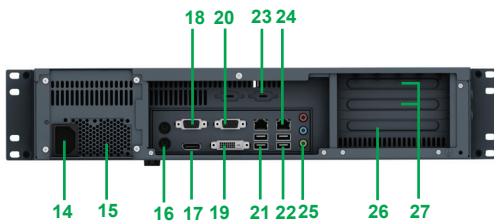
Magelis iPCs for automation

Magelis HMIR Rack PC

Optimized range



Front view of Optimized Magelis Rack PC



Rear view of Optimized Magelis Rack PC

## Description

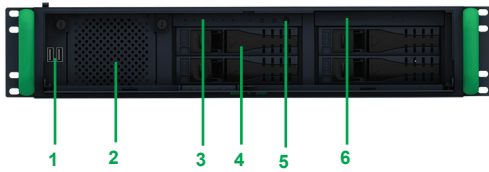
### Magelis HMIR Optimized 2U

#### Front view

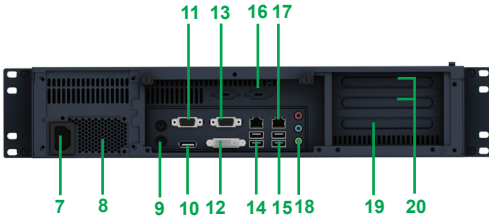
- 1 Power LED
- 2 HDD LED
- 3 Temperature LED
- 4 Fan LED
- 5 2 fans
- 6 SATA3 3.5" internal drive
- 7 2 USB 2.0 ports (USB1 and USB2)
- 8 System reset button
- 9 Alarm reset button
- 10 Power supply switch
- 11 KB/MS connector
- 12 2 x 3.5" hot swap hard disk trays (RAID configuration required for hot swapping operating system)
- 13 Slim optical drive bay

#### Rear view

- 14 Power connector
- 15 Power supply unit
- 16 KB/MS connector
- 17 Display port connector
- 18 Serial port connector
- 19 DVI connector
- 20 VGA connector
- 21 2 USB 3.0 ports
- 22 2 USB 3.0 ports
- 23 2 spare Sub-D9 slots
- 24 2 LAN ports
- 25 Audio port
- 26 PCI expansion slot
- 27 2 PCI Express expansion slots (x8/x16)



Front view of Universal Magelis Rack PC



Rear view of Universal Magelis Rack PC

## Description (continued)

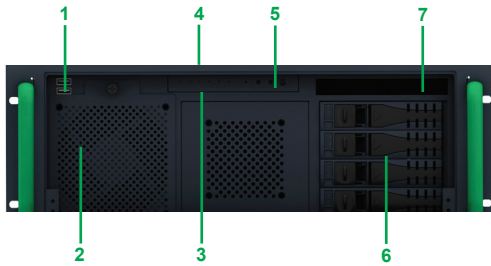
### Magelis HMIR Universal 2U

#### Front view

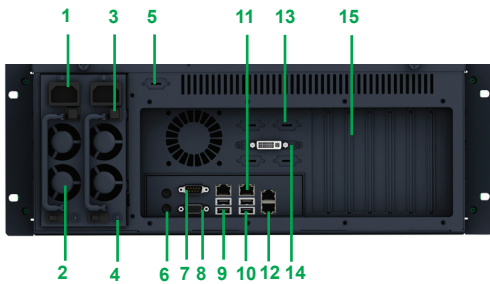
- 1 2 USB 2.0 ports
- 2 Front-accessible fan
- 3 5 LED indicators (power, HDD/temperature/fan)
- 4 2 x 3.5" hot swappable hard disk trays (RAID configuration required for hot swapping operating system)
- 5 3 buttons (Alarm reset/System reset/Power)
- 6 Slim optical drive bay

#### Rear view

- 7 Power connector
- 8 Power supply unit
- 9 KB/MS connector
- 10 Display port connector
- 11 Serial port connector
- 12 DVI connector
- 13 VGA connector
- 14 2 USB 3.0 ports
- 15 2 USB 3.0 ports
- 16 2 spare Sub-D9 slots
- 17 2 LAN ports
- 18 Audio port
- 19 PCI expansion slot
- 20 2 PCI Express expansion slots (x8/x16)



Front view of Performance Magelis Rack PC



Rear view of Performance Magelis Rack PC  
(redundant power supply)

## Description (continued)

### Magelis HMIR Performance 4U

#### Front view

- 1 2 USB 2.0 ports
- 2 Front-accessible fan
- 3 6 LEDs
- 4 SATA3 3.5" internal drive
- 5 4 switches/buttons
- 6 4 x 3.5" hot swappable hard disk trays(RAID configuration required for hot swapping operating system)
- 7 Slim optical drive bay

#### Rear view with redundant power supply

- 1 2 power supply connectors (1)
- 2 2 power supply units (2)
- 3 Button
- 4 LED
- 5 Spare Sub-D9 slot
- 6 KB/MS connector
- 7 Serial port connector
- 8 VGA connector
- 9 2 USB 2.0 ports
- 10 2 USB 3.0 ports
- 11 2 LAN ports
- 12 2 spare LAN ports
- 13 4 spare Sub-D9 slots for additional RS-232 with **HMIYRINSL41** accessory kit
- 14 DVI connector
- 15 Expansion slots (max 7): 2 PCI Express x4 and 2 PCI Express x8/x16 and 3 PCI. By default, audio ports are mounted on 1 slot

(1) Only one power supply connector for Rack PCs with single power supply.  
(2) Only one power supply unit for Rack PCs with single power supply.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

Optimized, Universal and Performance ranges



HMIRXOHCA3001

Magelis HMIR Optimized 2U						
Intel iCore G540 (2.5 GHz) processor for HMIRXO/G850 (2.9 GHz) processor for HMIRSO/DDR3 RAM/AC power supply						
Expansion slots PCIe/PCI	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
2 PCI Express (x8) + 1 PCI	Windows 7 32-bit (WES 7 Premium full blown)	–	HDD ≥ 500 GB consumer internal + 2 free trays for hot swapping	2 GB	HMIRXOHCA3W01	12.20/26.90
2 PCI Express (x8) + 1 PCI	–	–	–	2 GB	HMIRXOHCA3001	12.20/26.90
2 PCI Express (x8) + 1 PCI	Windows 7 64-bit (WES 7 Premium full blown)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 2 free trays for hot swapping	2 GB	HMIRSOHPA3W01	12.20/26.90



HMIRSUH3A3701

Magelis HMIR Universal 2U						
Intel i3-2120 processor (3.3 GHz)/DDR3 RAM/AC power supply						
Expansion slots PCIe/PCI	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7, in first of 4 trays for hot swapping	4 GB	HMIRSUH3A3701	14.50/31.97
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB, in first of 4 trays for hot swapping	4 GB	HMIRSUS3A3701 (4)	14.50/31.97



HMIRSPFXA6701

Magelis HMIR Performance 4U						
Intel Xeon™ E3-1225 processor (3.2 GHz)/DDR3 or ECC RAM/AC power supply						
Expansion slots PCIe/PCI	Operating system	Software	Storage slots and drives	RAM	Reference	Weight kg/lb
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPHXA6701 (1)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	PES leaflet	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot swapping	8 GB DDR3	HMIRSPHXA67P1 (1) (4)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPFXA6701 (1)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPFXR6702 (2)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows Server 2008 standard R2 including 5 clients	–	2 HDD ≥ 500 GB Enterprise 24/7 in 2 hot swap trays + 2 free trays for hot swapping + 1 free internal SATA slot	8 GB ECC	HMIRSPSXR6S01 (2)	24.20/53.35
	Windows Server 2012 standard R2 including 5 clients	PES leaflet	–	–	HMIRSPSXR6T01 (2)	24.20/53.35

(1) Single AC power supply, 500 W.

(2) Redundant AC power supply, 500 W.

(3) By default, audio ports are mounted on 1 PCI slot.

(4) Additional part numbers with pre-installed PES software are available in the PES catalog.

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# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### Separate components

Separate components						
Description	Details	Compatible with Magelis HMIR Rack PC			Reference	Weight kg/lb
		Optimized	Universal	Performance		
<b>Storage disks, expansion RAM, peripheral equipment</b>						
HDD with mounting screws	500 GB (Enterprise 24/7), blank	All models			HMIYHDD500R1	–
	1 TB (Enterprise 24/7), blank	All models			HMIYHDD01TR2	–
SSD with mounting screws	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS080S1	–
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS160S1	–
Power cable China	China type power cable	All models			HMIYRCABPWRCN1	–
4 Serial Lines kit for Rack 2U	Optional kit with 4 cables for mother board connection, 2 PCI brackets, and 2 communication ports	All models	–		HMIYRINSL21	–
4 Serial Lines kit for Rack 4U	Optional kit with 1 PCB for mother board connection, screws and 2 x 2 m cables and 2 communication ports for spare housing	–		All models	HMIYRINSL41	–
Expansion RAM 4 GB for HMIR	4 GB DDR3	All models except HMIRSPSXR6S01			HMIYPRAM3040R1	–
Expansion RAM 4 GB for HMIR	8 GB DDR3	All models except HMIRSPSXR6S01			HMIYPRAM3080R1	–
Expansion RAM 4 GB for Rack server	4 GB ECC	–		HMIRSPSXR6S01	HMIYPRAME040R1	–
Expansion RAM 4 GB for Rack server	8 GB ECC	–		HMIRSPSXR6S01	HMIYPRAME080R1	–
<b>Maintenance kit</b>						
Maintenance kit for Rack PC 2U	USB cable, fans, holders, filters, motherboard screws, HDD screws, SATA cables and door keys	All models	–		HMIYRMKT2O1	–
Maintenance kit for Rack PC 2U		–	All models	–	HMIYRMKT2U1	–
Maintenance kit for Rack PC 4U		–		All models	HMIYRMKT4P1	–
<b>Power supply</b>						
300 W power supply for Rack PC 2U	Spare single 110-240 V AC power supply	All models	–		HMIYRMAC21	–
500 W power supply for Rack PC 4U		–		HMIRSPHXA6701 HMIRSPHXA67P1 HMIRSPFXA6701	HMIYRMAC41	–
500 W redundant power supply for Rack PC 4U	Spare redundant 110-240 V AC power supply	–		HMIRSPFXR6702 HMIRSPSXR6S01	HMIYRMRC41	–
<b>Software</b>						
Vijeo Designer RT license for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license	All models			VJDSNRTMPC	–
Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)			VJDSNTRCKV60M	–
Vijeo XD RT license for 1 workstation	Converts the 21-day trial version of Vijeo XD RT Demo to an unlimited license	All models			HMIRTM CZLSPA ZZ	–



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## Magelis™ HMIDID iDisplay screens

- Selection guide* ..... page 7/2
- Presentation ..... page 7/4
- Architecture ..... page 7/4
- References ..... page 7/5
- Separate parts ..... page 7/5
- Substitution ..... page 7/5



# Industrial PCs

## Magelis HMIDID iDisplay screens for automation 12" and 15" flat screens

<b>Industrial PCs</b>	<b>Magelis iDisplay flat screens</b>
<b>Model</b>	<b>12" touch screens</b>



<b>Screen</b>	Type	12" color TFT high definition LCD
	Definition	XGA 1024 x 768
	Number of colors	16 M colors
	Brightness	≥ 400 cd/m <sup>2</sup> adjustable, 100 level dimming with Brightness sensor
	Backlighting service life	50,000 hours
<b>Touch screen</b>		Multi-touch resistive
<b>I/O ports</b>	On the front panel	1 USB 2.0 (Type A)
	Other	1 DVI-D video (DVI-D 24 pin socket) 1 USB 2.0 (Type B) from touch screen to PC with driver up to Windows® 8.1 Supplied with 5 m/16.40 ft DVI-D and USB cables
<b>Standards and certifications</b>		CE Europe RCM Australia UL 508 and CSA C22.2 No142, Industrial Control Equipment ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations IECEX/ATEX (I) for use in zones 2/22 EAC (Russia, Belarus, Kazakhstan) Marine Germanischer Lloyd (GL)
<b>Supply voltage</b>		12...24 V ---
<b>Consumption</b>		17 W max.
<b>Degree of protection</b>		IP 66F, IP 67F and UL50E TYPE4X/13 for the front panel when installed properly in an enclosure
<b>Mounting</b>		Panel on front enclosure or VESA 100 X 100 on the rear of iDisplay
<b>Dimensions</b>	Overall dimensions (W x H x D)	315 × 241 × 67 mm/12.40 × 9.50 × 2.64 in.
	Cut-out (W x H)	301.5 × 227.5 mm/11.87 × 8.96 in.
<b>Environment</b>	Operating temperature	0...60 °C/32...140 °F, according to EN 61131-2 and UL
	Storage temperature	-20...60 °C/-4...140 °F
	Shock resistance	IEC/EN 61131-2 compliant: ■ 147 m/s <sup>2</sup> ■ X, Y, Z directions tested for 3 times
	Vibration resistance	Conforming to JIS B 3501 and IEC 61131-2 standards: ■ 5...9 Hz, 3.5 mm fixed amplitude ■ 9...150 Hz: constant acceleration of 1 g (9.8 m/s <sup>2</sup> ) ■ X, Y, Z directions tested 10 times (100 minutes)
<b>Type</b>		<b>HMIDID64DTD1</b>
<b>Pages</b>		7/5

<b>Magelis iDisplay flat screens</b>
<b>15" touch screen</b>



<b>Screen</b>	Type	15" color TFT LCD
	Definition	XGA 1024 x 768
	Number of colors	16 M colors
	Brightness	≥ 400 cd/m <sup>2</sup> adjustable, 100 level dimming with Brightness sensor
	Backlighting service life	50,000 hours
<b>Touch screen</b>		Multi-touch resistive
<b>I/O ports</b>	On the front panel	1 USB 2.0 (Type A)
	Other	1 DVI-D video (DVI-D 24 pin socket) 1 USB 2.0 (Type B) from touch screen to PC with driver up to Windows 8.1 Supplied with 5 m/16.40 ft DVI-D and USB cables
<b>Standards and certifications</b>		CE Europe RCM Australia UL 508 and CSA C22.2 No142, Industrial Control Equipment ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations IECEX/ATEX (I) for use in zones 2/22 EAC (Russia, Belarus, Kazakhstan) Marine Germanischer Lloyd (GL)
<b>Supply voltage</b>		12...24 V ---
<b>Consumption</b>		21 W max.
<b>Degree of protection</b>		IP 66F, IP 67F and UL50E TYPE4X/13 for the front panel when installed properly in an enclosure
<b>Mounting</b>		Panel on front enclosure or VESA 100 X 100 on the rear of iDisplay
<b>Dimensions</b>	Overall dimensions (W x H x D)	397 × 296 × 67 mm/15.63 × 11.65 × 2.64 in.
	Cut-out (W x H)	383.5 × 282.5 mm/15.10 × 11.12 in.
<b>Environment</b>	Operating temperature	0...60 °C/32...140 °F, according to EN 61131-2 and UL
	Storage temperature	-20...60 °C/-4...140 °F
	Shock resistance	IEC/EN 61131-2 compliant: ■ 147 m/s <sup>2</sup> ■ X, Y, Z directions tested for 3 times
	Vibration resistance	Conforming to JIS B 3501 and IEC 61131-2 standards: ■ 5...9 Hz, 3.5 mm fixed amplitude ■ 9...150 Hz: constant acceleration of 1 g (9.8 m/s <sup>2</sup> ) ■ X, Y, Z directions tested 10 times (100 minutes)
<b>Type</b>		<b>HMIDID73DTD1</b>
<b>Pages</b>		7/5

# Industrial PCs

## Magelis HMIDID *i*Display screens for automation 12" and 15" flat screens



HMIDID73DTD1

### Presentation

Magelis HMIDID *i*Display screens are monitors with industrial flat screens designed for use with PCs. The 4:3 auto-scaler format screens of *i*Display adapt to screen definition.

Two screen sizes are available: 12" and 15" to suit various requirements.

Magelis HMIDID enhances user experience and efficiency by multi-touch support like the smart phone. In addition to panel mounting, Magelis *i*Display also offers VESA 100x100 mounting on the rear side of the product.

Magelis HMIDID screens are certified for PLC product standards and designed for use in severe industrial environments (up to 60 °C, with LED backlight (50,000-hr life) and waterproof front IP 67f). They support excellent screen sizes or dimension ratios for easy installation on any machine or in any equipment.

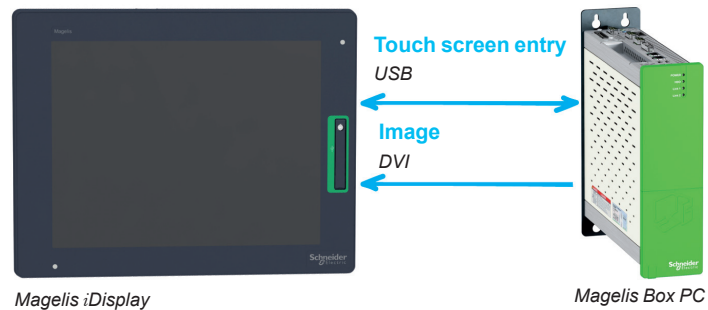
These screens are easily connected to the PC via:

- Standard DVI digital video with auto-scaler
- USB with touch screen drivers (supports up to Windows® 8.1)

Magelis *i*Display screens have the same cut-out dimensions as Magelis HMI Panels, making it easy to upgrade installations.

### Architecture

Magelis *i*Display screens are compatible with Magelis Box PC, S-Box PC, and Rack PCs (1).



(1) For more information, please refer to pages 5/4 to 5/11, 4/4 to 4/7, 6/4 to 6/11.



HMIDID64DTD1

References					
Description	Screen	Interface	Supply voltage	Reference	Weight kg/lb
Flat screen for flush mounting, IP 66f, IP 67f front panel (3)	12", XGA resistive (1024 x 768)	Multi-touch	12...24 V $\overline{\text{DC}}$	HMIDID64DTD1 (1)	3.9/ 8.6
	15", XGA resistive (1024 x 768)	Multi-touch	12...24 V $\overline{\text{DC}}$	HMIDID73DTD1 (1)	5.2/ 11.5

Separate parts				
Description	No. of units	Reference	Weight kg/lb	
Extra-long cable (10 m/32.81 ft) for connection with Magelis Box PC and Magelis Panel PC industrial PCs (2)	–	HMIYCABDVI1011	–	
USB clamp Type B (1 port) for Magelis iDisplay	5	HMIYDUSBCA111	–	
iDisplay Adaptation plate from 19" to 15"	–	HMIYAD1915D1	–	

Substitution			
Old industrial PCs		Replaced by Magelis Box PCs	
Description	Reference	Description	References
Magelis iDisplay 15"		Magelis iDisplay 15" Multi-touch	
15", XGA	HMIDID7DT0	15", XGA resistive	HMIDID73DTD1

(1) Supplied with 5 m/16.4 ft DVI cable.

(2) For more information, see page 3/27.

(3) Magelis iDisplay offers VESA 100 x 100 mounting on the rear of the product.



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		HMIPUH6D0701	3/13	HMIIYDRDVDRW11	3/27 5/9	HMIYSDD18061	3/26
HMIBUHND2P01	5/8 5/11	HMIPUH7A0P01	3/22 3/30	HMIIYDRDVDRW61	3/26	HMIYSDDS080S1	2/7 4/5 6/11
		HMIPUH7A2P01	3/22 3/30	HMIIYDUSBCA111	7/6	HMIYSDDS160S1	2/7 4/5 6/11
HMIDID7DT0	3/31	HMIPUH7D0P01	3/22	HMIIYHDD01T21	2/7	HMIYSDDS240S1	2/7
HMIDID64DTD1	7/6	HMIPUH7D0PL1	3/22 3/30	HMIIYHDD01TR2	6/11	HMIYUPSKT11	3/27 5/9
HMIDID73DTD1	7/6	HMIPUH9A2P01	3/24	HMIIYHDD500R1	6/11	HMIYUPSKT61	3/26
HMIPCCB1	5/10	HMIPUH9A2PF1	3/24	HMIIYHDD050011	3/27 5/9	HMIYUSBBK111	2/8
HMIPCCB1B5CB26K10N	5/11	HMIPUH9D0P01	3/24	HMIIYHDD50021	2/7	HMIZSD4G	3/27
HMIIYUPSKT11	5/11	HMIPUH9D0PF1	3/24	HMIIYHDD50061	3/26		
HMIPCCP	3/29 3/31	HMIPUH9A0P01	3/24	HMIIYINDVIRGB11	5/9		
		HMIPUH9A2P01	3/24	HMIIYLFIMAR11	3/27 5/9	<b>M</b>	
HMIPCCCT	3/29 3/30	HMIPUH9A2PF1	3/24	HMIIYMINCAN1	2/7	MPCFN02NAX00N	5/11
		HMIPUH9D0P01	3/24	HMIIYMINIO1	2/7	MPCFN02NDX00N	5/11
HMIPCCV	3/29	HMIPUH9D2P01	3/24	HMIIYMINNVRAM1	2/7	MPCFN05MAX00N	5/11
HMIPCCW	3/29	HMIPV7D0E01	3/5 3/30	HMIIYMINPRO1	2/7	MPCFN05MAX00V	5/11
HMIPPF6A2701	3/13	HMIPWC5D0E01	3/5 3/30	HMIIYMINSL22321	2/7	MPCFN05NAX00N	5/11
HMIPPF7A27F1	3/23	HMIPWC5D0E01A	3/5 3/30	HMIIYMINSL24851	2/7	MPCFN05NDX00N	5/11
HMIPPF7A2701	3/23	HMIPWC7D0E01	3/5 3/30	HMIIYMINSL42321	2/7	MPCHN02NAX00N	5/11
HMIPPF7D07F1	3/23	HMIRSOHPA3W01	6/10	HMIIYMINSL44851	2/7	MPCHN05MAX00N	5/11
HMIPPF7D0701	3/23	HMIRSPFXA6701	6/10	HMIIYP752PS11	2/8	MPCHN05MAX00V	5/11
HMIPPF9A27F1	3/25	HMIRSPXR6702	6/10	HMIIYP952PS11	2/8	MPCHN05NAX00N	5/11
HMIPPF9A2701	3/25	HMIRSPXR6S01	6/11	HMIIYPC1161	3/26	MPCHN05NBX00N	5/11
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HMIPPH7A0701	3/23			HMIIYPFKT01	3/27	MPCKT22MAX20N	3/30
HMIPPH7A2701	3/23			HMIIYPFKT21	3/27	MPCKT22NAX20N	3/30
HMIPPH7B2701	3/23						
HMIPPH7D0701	3/23						
HMIPPH7D2701	3/23						
HMIPPH9A0701	3/25						
HMIPPH9A2701	3/25						
HMIPPH9D0701	3/25						
HMIPPH9D2701	3/25						
HMIPRH7A2701	3/23						
HMIPSC7AE03	3/30						



Human Machine Interface



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