The Essential Guide

Magelis[™] Human Machine Interfaces

2011









Magelis[™] STU graphic display terminal with touch screen

Install your terminal in seconds

Featuring a quick mounting system and easy-to-use configuration software, the Magelis STU range can significantly reduce the overall cost of your installation, saving you time and money!

A new generation of high-performance screens

Simplicity

- Tool-free installation with no special drilling requirements, thanks to the 22 mm diameter push button mounting system
- Expandable, modular design with removable 3.5" or 5.7" screen
- Ease of maintenance:
 - LED backlight, no batteries required
 - Removable power supply connector
- Flexible programming

Optimum visibility

- Modular design with removable 3.5" or 5.7" screen
- Clear, precise color QVGA 65K touch screen

Enhanced communication

- Embedded Ethernet connection for faster, more open communication
- Multi-protocol RS485/232 standard RJ45 ports and USB ports (mini and standard versions)





Magelis[™] Smart + industrial PC with 15" touch screen

No maintenance, no rotating parts

With no hard disk or fan, Magelis Smart + functions like an operator terminal with all the capabilities of Windows® XP Pro:

- Integrated Flash disk with Windows XP
- Intel Celeron® M 1 GHz processor, 1 GB RAM
- 2 Ethernet ports

Unrivalled rugged design

- IP 65 protection
- Certifications: UL 508 Industrial Control Equipment, UL, ATEX hazardous atmospheres, Marine

Excellent compatibility

- Supports Vijeo[™] Designer applications (demo version can be expanded to unlimited version)
- Fully supports Vijeo Citect[™] supervisory software



Human Machine Interfaces

Comprehensive HMI solutions for a wide range of applications

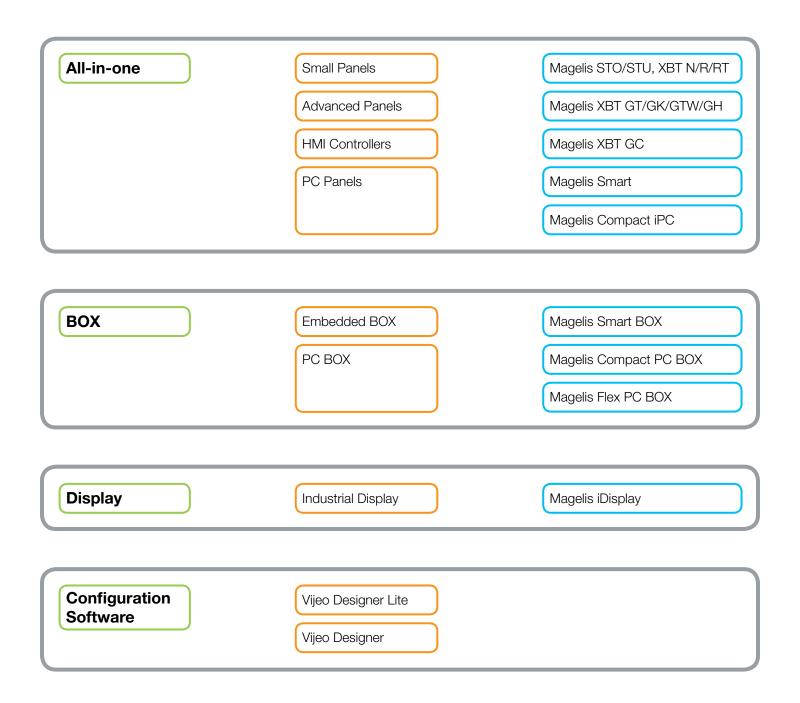


Table of Contents

Human machine interfaces

Display Units, Terminals, Industrial PCs

Small Panels	
with graphic screen, Magelis STO/STU	
with matrix, semi-graphic screen, Magelis XBT N	3
with matrix, semi-graphic screen, dedicated, Magelis XBT N	3
with matrix, semi-graphic and touch screen, Magelis XBT R, RT	4
Advanced Panels	
with touch screen, Magelis XBT GT	5 and 6
with touch screen and keypad, Magelis XBT GK	7
with touch screen, Magelis XBT GTW, GH	7 and 8
Accessories	9
HMI Controllers	
Compact, Magelis XBT GC	10
PC Panels	
with touch screen, Magelis Smart	11
with touch screen, Magelis Compact iPC	11
Embedded Box and PC Box	
Magelis Smart BOX, Compact BOX and Flex PC BOX	12
Front Panel	
for Flex PC BOX	13
Industrial Display	
with touch screen, Magelis iDisplay	13
Configuration Software	
For Magelis STO/STU, XBT GT, GK, GTW, GH, Smart, Compact iPC, PC BOX	
Vijeo Designer	14
For Magelis XBT N/R/RT	
Vijeo Designer Lite	15

HMISTO501



References

Magelis STO with graphic screen				
	Specifications			
LCD screen size/resolution	3.4"/monochrome (200 X 80 p	ixels)		
Туре	Green, orange, red	White, pink, red	Green, orange, red	
Representation of variables	Alphanumeric, bitmap, bar gra	ph, gauge, button, light, clock, fl	ashing light, keypad	
Curves/alarm logs	Yes, with log/Yes, incorporated			
Serial link	1 RJ45 (RS 232 – RS 485)		1 Terminal Block RS232	
Networks	_	_	_	
		Zelio™		
	Vijeo Designer VJD•••TG•V•• Limited Edition	M (on Windows XP, Vista and 7 -	- 32 bit only) or Vijeo Designer	
n)	116.5 x 38.5 x 77.5			
Compatibility with PLCs		Twido™, Modicon™ TSX Micro™, Modicon Premium™, Modicon Zelio Quantum™, Modicon M340™		
	No			
	1 host type A + 1 Device type miniB			
	No			
	24 VDC			
	LCD screen size/resolution Type Representation of variables Curves/alarm logs Serial link Networks	Specifications LCD screen size/resolution Type Green, orange, red Representation of variables Curves/alarm logs Serial link 1 RJ45 (RS 232 – RS 485) Networks — Mitsubishi (Melsec), Omron (Sy (Allen Bradley), Siemens (Simat Modbus TCP Vijeo Designer VJD•••TG•V•• Limited Edition 116.5 x 38.5 x 77.5 Twido™, Modicon™ TSX Micro™ Quantum™, Modicon M340™ No 1 host type A + 1 Device type in No	Specifications LCD screen size/resolution Type Green, orange, red White, pink, red Representation of variables Alphanumeric, bitmap, bar graph, gauge, button, light, clock, fl Curves/alarm logs Yes, with log/Yes, incorporated Serial link 1 RJ45 (RS 232 − RS 485) Networks − − Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus™, Modbus TCP Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 · Limited Edition 116.5 x 38.5 x 77.5 Twido™, Modicon™ TSX Micro™, Modicon Premium™, Modicon Quantum™, Modicon M340™ No 1 host type A + 1 Device type miniB No	

HMISTO512

HMISTO511

Magelis STU with graphic screen					
Туре		Specifications			
Display	LCD screen size/resolution	3.5"/QVGA (320 X 240 pixels)	5.7"/QVGA (320 X 240 pixels)		
	Туре	TFT 65 536 colors			
Functions	Representation of variables	Alphanumeric, bitmap, bar graph, gauge, butto	n, light, clock, flashing light, keypad		
	Curves/alarm logs	Yes, with log/Yes, incorporated			
Communication	Serial link	1 RJ45 (RS 232 – RS 485)			
	Networks	Ethernet, IEEE 802.3, 10/100 BASE-T, RJ45			
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus, Modbus TCP			
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only) or Vijeo Designer Limited Edition			
Dimensions W x D x H (mm	1)	Front: 98 x 16 x 81	Front: 163 x 17.5 x 129.5		
		Rear: 118 x 30 x 98			
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340			
CompactFlash card slot		No			
USB port		1 host type A + 1 Device type miniB			
Built-in Ethernet TCP/IP		Yes Yes			
Supply voltage		24 VDC			
References		HMISTU655	HMISTU855		



Magelis XBT N with matrix, semi-graphic screen ⁽¹⁾		0 H H O	0 (KEI)MOO 0	0 181	N401 ○
Туре		Specifications			
Display	Capacity	2 lines, 20 characters	1 to 4 lines, 5 to 20 ch	aracters	
	Туре	Back-lit LCD Green		Back-lit LCD Three colors: green, or	ange, red
Data entry		Via keypad with 8 keys (four customizable keys)		s)	
Functions	Representation of variables	Alphanumeric	Alphanumeric, bar gra	oh, curves, button and light	
	Alarm log	No	Yes	Yes	Yes
Communication	Serial link	1 RJ45 (RS 232 – RS	485)	1 Sub-D25 (RS 232 – RS 485) + 1 miniDin RS232 ⁽²⁾	
Communication protocol	ls	Uni-TE, Modbus Master		Uni-TE, Modbus Master, Siemens, Rockwell, Omron, Mitsubishi, Zelio (2)	
Development software		Vijeo Designer Lite (on Windows XP and Vista)			
Dimensions W x D x H (n	nm)	132 x 37 x 74			
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon M340		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon Momentum, Modicon M340, Zelio (2)	
Supply voltages		5 VDC or PLC power supply		24 VDC	
References		XBTN200	XBTN400	XBTN410	XBTN401

⁽¹⁾ Except XBTN200: alphanumeric screen.

⁽²⁾ For XBTN401 only

Magelis XBT N with matrix, semi-graphic screen, dedicated		000000	O XETNAO O	
Туре		Specifications		
Display	Capacity	1 to 4 lines, 5 to 20 characters		
	Туре	Back-lit LCD Green Back-lit LCD Three colors: green, orange, red		
Data entry		Via keypad with eight keys		
Functions	Representation of variables	Alphanumeric, bar graph, curves, button and light		
	Alarm log	Yes		
Communication	Serial link	1 Sub-D25	1 Sub-D25 (RS 232 – RS 485) + 1 miniDin RS232 ⁽²⁾	
Communication proto	cols	Modbus	Zelio	
Development software	•	Vijeo Designer Lite (on Windows XP and Vista)		
Dimensions W x D x F	I (mm)	132 x 37 x 74		
Compatibility with PLCs		Motor starter TeSys™ Model U Zelio (including connection cable)		
Supply voltage		24 VDC		
References		XBTNU400 XBTNSR2 (3)		

⁽²⁾ For XBTN401 only

⁽³⁾ Including: 1 XBTN401 + 1 cable SR2CBL08 for Zelio

Magelis · · · · · Small Panels

Magelis XBT R with matrix, semi-graphic screen ⁽¹⁾		0 00000 000000 000000 000000				
Туре		Specifications				
Display	Capacity	4 lines, 20 characters				
	Туре	Back-lit LCD Green	Back-lit LCD Three colors: green, orange, red			
Data entry	Data entry		Via keypad with eight keys (four customizable keys)			
Functions	Representation of variables	Alphanumeric, bar graph, curves, button and light				
	Alarm log	Yes	Yes	Yes		
Communication	Serial link	1 RJ45 (RS 232 – RS 485)	1 Sub-D25 (RS 232 – RS 485)	+ 1 miniDin (RS232)		
Communication protoco	ols	Uni-TE, Modbus Master	Uni-TE,Modbus Master/Slave (1), Siemens, Rockwell, Om Mitsubishi, Zelio (1)			
Development software		Vijeo Designer Lite (on Windows XP and Vista)				
Dimensions W x D x H (mm)	137 x 37 x 118				
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon M340	Twido, Modicon TSX Micro, Modicon Premium, Mod Quantum, Modicon Momentum, Modicon M340, Ze			
Supply voltages		5 VDC or PLC power supply	24 VDC			
References		XBTR400	XBTR410	XBTR411		

⁽¹⁾ For XBTR411 only

Magelis XBT RT with semi-graphic and touch screen		• = = = = = = = = = = = = = = = = = = =		
Туре		Specifications		
Display	Capacity	10 lines, 33 characters		
	Туре	Back-lit LCD Green	Back-lit LCD Three colors: green, orange, red	
Data entry		Via keypad with 12 keys (10 customizable keys) or touchscreen		
Functions	Representation of variables	Alphanumeric, bar graph, curves, button and light		
	Alarm log	Yes	Yes	
Communication	Serial link	1 RJ45 (RS 232 – RS 485) + 1 miniDin (RS232	(2)	
Communication protoc	cols	Uni-TE, Modbus Master, Siemens, Rockwell,O	mron, Mitsubishi	
Development software	•	Vijeo Designer Lite (on Windows XP and Vista)		
Dimensions W x D x H	(mm)	137 x 37 x 118		
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon M340, Modicon Quantum, Zelio		
Supply voltages		5 VDC or PLC power supply	24 VDC	
References		XBTRT500	XBTRT511	

⁽²⁾ For XBTRT511 only

XBTGT1335



References

Magelis XBT GT with 3.8" touch screen			300	Story 2.	
Туре		Specifications			
Display	LCD screen size/resolution	3.8"/QVGA			
	Туре	STN monochrome, amber or red TFT 256 color			
Functions	Representation of variables	Alphanumeric, bitmap, bar graph, gauge, button, light, clock, flashing light, keypad			
	Curves/alarm logs	Yes, with log/Yes, incorporated			
Communication	Serial link	1 RJ45 (RS 232 – RS 485)			
	Networks	_	Ethernet, IEEE 802.3		
Communication protocols	•	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP			
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only)			
Dimensions W x D x H (mi	m)	118 × 30 × 98			
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340			
CompactFlash card slot		No			
USB port host type A		1	1	1	
Built-in Ethernet TCP/IP		No	Yes		
Supply voltage		24 VDC			

XBTGT1135

XBTGT1105

Magelis XBT GT with 5.7" touch screen							`	
Туре		Specifica	tions					
Display	LCD screen size/resolution	5.7"/QVGA						5.7"/VGA
	Туре	STN Monoch	nrome		STN, color	TFT, color 6	5536 colors	
		Blue backlighting	Black and W backlighting	hite	4096 colors		High brightness backlighting	
Functions	Representation of variables	Alphanumeri	c, bitmap, bai	r graph, gauge	e, button, light	, clock, flashir	ng light, keypa	d
	Curves/alarm logs	Yes, with log	Yes, incorpor	rated				
Communication	Serial link	1 Sub-D9 (R	S 232/RS 422	2 – RS 485) +	1 RJ45 (RS 4	85)		
	Networks	_		Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	_	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	Ethernet 10/100 BASE-T	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)						
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only)						
Dimensions W x D x H (mm	1)	167.5 x 60 x 135						
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340, Modicon Momentum						
CompactFlash card slot		No Yes						
USB port host type A	1 2					2		
Video in		No						
Built-in Ethernet TCP/IP		No No Yes No Yes Yes Yes			Yes			
Supply voltage	24 VDC							
References		XBTGT2110	XBTGT2120	XBTGT2130	XBTGT2220	XBTGT2330	XBTGT2930	XBTGT2430



Magelis XBT GT with 7.5" and 10.4" touch screen								
Туре		Specifica	itions					
Display	LCD screen size/resolution	7.5"/VGA			10.4"/VGA			10.4"/ SVGA
	Type (color)	STN	TFT	TFT	STN	TFT	TFT	TFT
	Number of colors	4096	65536	65536	4096	65536	65536	65536
Functions	Representation of variables	Alphanumeri	ic, bitmap, bar	graph, gauge	e, button, light	, clock, flashir	ng light, keypa	d
	Curves/alarm logs	Yes, with log/Yes, incorporated						
Communication	Serial link	1 Sub-D9 (R	S 232/RS 422	2 – RS 485) +	1 RJ45 (RS 4	85)		
	Networks	Ethernet, IEE	EE 802.3 10/1	00 BASE-T, R	J 45			
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP						
Development software		Vijeo Design	er VJD•••TG•	V••M (on Wir	ndows XP, Vist	ta and 7 – 32	bit only)	
Dimensions W x D x H (mn	n)	215 x 60 x 170 313 x 56 x 239 271 x 57 x 213						
Compatibility with PLCs		Twido, Modi	con TSX Micro	, Modicon Pr	emium, Modic	on Quantum,	Modicon M34	10
CompactFlash card slot		Yes						
USB port host type A		1	1	1	2	2	2	2
Video in		No	No	Yes	No	No	Yes	No
Built-in Ethernet TCP/IP Yes				-				
Supply voltage	24 VDC							
References		XBTGT4230	XBTGT4330	XBTGT4340	XBTGT5230	XBTGT5330	XBTGT5340	XBTGT5430

Magelis XBT GT with 12.1" and 15" touch screens					
Туре		Specifications			
Display	LCD screen size/resolution	12.1"/SVGA		15"/XGA	
	Type (color)	TFT	TFT	TFT	
	Number of colors	65536	65536	65536	
Functions	Representation of variables	Alphanumeric, bitmap, bar gra	ph, gauge, button, light, clock, fl	ashing light, keypad	
	Curves/alarm logs	Yes, with log/Yes, incorporated	l		
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 – R	IS 485) + 1 RJ45 (RS 485)		
	Networks	Ethernet, IEEE 802.3 10/100 E	BASE-T, RJ 45BASE-T, RJ 45		
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP			
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only)			
Dimensions W x D x H (mm	1)	313 x 56 x 239	395 x 60 x 294		
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340			
CompactFlash card slot		Yes			
USB port host type A		2			
Video in		No	Yes	Yes	
Built-in Ethernet TCP/IP		Yes			
Supply voltage		24 VDC			
References		XBTGT6330	XBTGT6340	XBTGT7340	



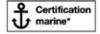
Magelis XBT GK with touch screen and keypad		: Pesti:	:===:		
screen and keyp	J.				
Туре		Specifications			
Display	LCD screen size/resolution	5.7"/QVGA		10.4"/VGA	
	Туре	STN monochrome black and white	TFT Color 65536 colors		
Data entry	Soft function keys with LED	14		18	
	Static function keys with LED	10 + legends		12 + legends	
	Service keys/ alphanumeric keys	8/12			
	Touch screen and industrial pointer	Yes			
Functions	Representation of variables	Alphanumeric, bitmap, bar graph, gauge, button, light, clock, flashing light, keypad			
	Curves	Yes, with log			
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 – F	IS 485) + 1 RJ45 (RS 485)		
	Networks	_	Ethernet, IEEE 802.3 10/100 E	BASE-T, RJ 45	
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP			
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only)			
CompactFlash card slot		Yes			
Dimensions W x D x H (mr	m)	220.3 x 88 x 265	296 x 91 x 332	197 x 92.6 x 147	
Compatibility with PLCs		Twido, Modicon TSX Micro, Mo	Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340		
USB port		1	1	2	
Video in		No	No	No	
Built-in Ethernet TCP/IP		No Yes			
Supply voltage		24 VDC			
References		XBTGK2120	XBTGK2330	XBTGK5330	

Magelis XBT GTW with 8.4", 12" and 15" touch screen	273					
Type	Specifications					
Pre-installed software	OS: Windows XP Embedded, Internet Explorer, Office & Acrobat Reader, .NET, Vijeo Desig Run Time unlimited					
	_	Vijeo Citect Web Client				
Touch screen	8.4" LCD TFT	12" LCD TFT	15" LCD TFT			
Resolution	SVGA 800 x 600	SVGA 800 x 600	XGA 1024 x 768			
Font panel ports	_	1 x USB	1 x USB			
Processor	Celeron M @ 600 MHz	Celeron M @ 1 GHz	Celeron M @ 1 GHz			
RAM	512 MB ► 1024 MB	512 MB ► 1024 MB	1024 MB			
Storage	CF 2 GB expandable to 4 GB	CF 2 GB expandable to 4 GB	CF 4 GB			
Extension	_	1 x PCMCIA slot (for 1 type II card)	1 PCMCIA slot (for 1 type III card or 2 type I cards)			
Ethernet ports	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)			
I/O ports	4 x USB, 2 x RS 232	4 x USB, 1 x RS 232	4 x USB, 2 x RS 232			
Power supply	24 VDC	24 VDC	24 VDC			
Dimensions W x D x H (mm)	230 x 65 x 177	313 x 60 x 239	395 x 65 x 294			
References	XBTGTW450	XBTGTW652	HMIGTW7353			



Magelis XBT GH touch screen	with 5.7"					
Туре		Specifications				
+ Screen						
Display	LCD screen size/resolution	5.7"/VGA				
	Type (color)	TFT				
	Number of colors	65536				
Data entry	Function keys	11 + label				
	Operation key	1 with LED (validation touchscr	reen)			
Safety components	Key switch	Yes for ON/OFF				
	3 positions enable switch	Yes, OK signal in intermediate	position only			
	Emergency stop	Yes, red with two safe contacts	s and one auxiliary contact			
Functions	Representation of variables	Alphanumeric, bitmap, bar grap	h, gauge, button, light, clock, flas	shing light, keypad		
	Curves/alarm historic	Yes, with log/Yes, incorporated				
Connection		32-pins connector (communication, alimentation, I/O)				
Communication protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP				
Development software		Vijeo Designer VJD•••TG•V••M (on Windows XP, Vista and 7 – 32 bit only)				
CompactFlash card slot		Yes				
Dimensions W x D x H (mm	1)	224 x 174 x 87.1				
USB port		1				
Supply voltage		24 VDC				
Reference		XBTGH2460				
+ Cable interface		Connection with junct	ion box			
Type of connector		2 x 32-pins speed connectors				
Length		3 m	5 m	10 m		
References		XBTZGHL3	XBTZGHL5	XBTZGHL10		
+ Junction box		Connection with PLCs				
Communication	Serial link	1 SubD9 (RS232/RS422 – RS 425)				
	Network	1 Ethernet RJ45 IEEE 802.3 10/100 T-BASE				
Connection	32-pins connector	Interface cable 3 or 10 m				
	24-pins screw terminals blocks	24 VDC, state of I/O safety components				
Reference		XBTZGJBOX				

A large number of accessories (cables, memory cards, protective sheets, etc.) are available for the advanced panels range.













Modular HMI co Magelis XBTGT, control function	/GK with				
Type		Specifications			
Display	LCD screen size/resolution	5.7"/QVGA to 10.4"/VGA	5.7" (QVGA/VGA), 7.5" (VGA), 10.4" (VGA/SVGA), 12.1" (SVGA), 15" (XGA)		
	Туре	STN monochrome or TFT color	STN monochrome, STN 4096 colors, TFT 65000 colors		
Functions	Representation of variables	Alphanumeric, bitmap, bar graph, gauge, button	, light, clock, flashing light, keypad		
	Curves/alarm logs	Yes, with log/Yes, incorporated			
	Control	5 languages IEC			
Communication	Serial link	1 RJ45 (RS 485) + 1 Sub9 (RS 232/RS 422 – RS	S 485)		
	Networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45 dep	ending on model		
Communication protocols	S	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus, Modbus TCP			
Development software		SoMachine (under Windows XP and Vista)			
Dimensions W x D x H (m	m)	Depending on model			
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340			
CompactFlash card slot		Yes			
USB port		1 or 2			
Built-in Ethernet TCP/IP		Depending on model			
Built-in I/O		No			
Extensions		CANopen module mandatory			
Supply voltage		24 VDC			
References		XBTGK2•/53	XBTGT2•/4•/5•/63/73		

The CANopen master module shown below may be added to any of the XBTGK* and XBTGT* products shown above and programmed with SoMachine $^{\text{\tiny{M}}}$ software to provide an all-in-one HMI controller including control logic and the ability to utilize remote IO via the CANopen bus. Please contact your Schneider Electric automation representative for additional details on this unique and powerful automation solution.

Control extension	
Type of module	CANopen master
Characteristics	Class M10 limited 16 slaves, Standard DS301 V4.O2
Reference	XBTZGCANM

Magelis XBT GC compact HMI controller						
Туре		Specifications				
Display	LCD screen size/resolution	3.8"/QVGA	5.7"/QVGA			
	Туре	STN monochrome, amber or red	STN monochrome, gray	STN 4096 colors		
Functions	Representation of variables	Alphanumeric, bitmap, bar gra	ph, gauge, button, light, clock, f	lashing light, keypad		
	Curves/alarm logs	Yes, with log/Yes, incorporated	b			
	Control	5 languages IEC				
Communication	Serial link	_	1 Sub9 (RS 232/RS 422 - RS	485)		
	Networks	_	_	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45		
Communication protoc	cols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP				
Development software	•	SoMachine (on Windows XP and Vista)				
Dimensions W x D x H	(mm)	130 x 76 x 104	207 x 76 x 157			
Compatibility with PLC	Ds .	Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340				
CompactFlash card slo	ot	No				
USB port host type A		1	1	1		
Built-in Ethernet TCP/I	IP	No	No	Yes		
Integrated I/O		12I/6O 24 VDC	16I/16O 24 VDC			
Extensions		2 modules TM2 or CANopen module				
Supply voltage		24 VDC				
References	Source output	XBTGC1100T	XBTGC2120T	XBTGC2230T		
	Sink output	XBTGC1100U	XBTGC2120U	XBTGC2230U		

Extensions													
Type of module		CANope	n ma	aster									
Characteristics		Class M10 li	Class M10 limited 16 slaves, Standard DS301 V4.O2										
Reference		XBTZGCCAN											
Type of module		Digital In	puts	s/Outp	outs	6							
Characteristics		8I 24 VDC Screw terminal	16l 2 VDC term	Screw	16l HE1	24 VD0 10	32l 2 ² HE10		8l 120 Screw termin	1	4I 24 V 4O Rela Screw termina	ays	16I 24 VDC 8O Relays Screw terminal
References		TM2DDI8DT	TM2D	DI16DT	TM2	DDI16DK	TM2DDI	32DK	TM2DAI	BDT	TM2DMM8	BDRT	TM2DMM24DRF
Type of module		Digital In	puts	s/Outp	outs	5		·					
Characteristics		24 VDC			insisto ;	or	320 Tran 24 VDC HE10	sistor	230	Relays O VAC 3 rew tern	0 VDC	230	Relays VAC 30 VDC w terminal
References	Source output	TM2DD08TT		TM2DD016	STK		TM2DD032TK		TM2DRA8RT			TM2DI	RA16RT
	Sink output	TM2DD08UT		TM2DD016	M2DD016UK TM2DD032UK		JK				_		
Type of module		Analog Ir	Analog Inputs/Outputs										
Characteristics		2I Current/ Voltage	rrent/ 2I		4l Current/ uple Voltage Temperature		81 Curr Voltage		8I Tem	nperature	1 1	II PTC	
References		TM2AMI2HT	ΤN	//2AMI2LT		TM2AMI	I4LT	TM2AMI8	НТ	TM2ARI8		П	M2ARI8HT
Type of module		Analog Ir	nput	:s/Out	put	s _							
Characteristics		10 Current/ Voltage		20 Volta			2I Current/Voltage 10 Current/ Voltage		10	21 Temperature 10 Current/ Voltage			urrent/Voltage Current/ age
References		TM2AMO1HT		TM2AVO2H	-IT		ТМ2АММ3Н	Т	TM2	ALM3LT		TM2AI	MM6HT

Magelis (All-in-one) · · · · · · · · · · · · · · · · · PC Panels

Magelis Smart wi touch screens	th 8.4", 12", 15	!!				
Туре			Smart 8.4	Smart 12	Smart 15	Smart+15
Pre-installed software			OS: Windows XP Emb	edded, Internet Explorer		OS: Windows XP Professional
			_	, 0	e demo, Vijeo Citect Wel	o Client
Touch screen			8.4" LCD TFT	12" LCD TFT	15" LCD TFT	
Resolution			SVGA 800 x 600	SVGA 800 x 600	XGA 1024 x 768	
Front-side port			_	1 x USB	1 x USB	
Processor			Celeron M @ 600 MHz	Celeron M @ 1 GHz	Celeron M @ 1 GHz	
RAM			512 MB ▶ 1024 MB	512 MB ► 1024 MB	1024 MB	
Storage			CF 2 GB expandable to 4 GB	CF 2 GB expandable to 4 GB	CF 4 GB Flash Disk 15GB	
Extension			_	1 x PCMCIA slot (for 1 type II card)	1 PCMCIA slot (for 1 ty 2 type I cards)	pe III card or
Ethernet ports			2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	
I/O ports			4 x USB, 2 x RS 232	4 x USB, 1 x RS 232	4 x USB, 2 x RS 232	
Certification			UL 508, CSA 142, Marine (1)	UL 508, CSA 142	UL 508, cUL, UL 1604 Div 2) (1), Marine DNV (1)	(Haz-Loc Class 1
Dimensions W x D x H (mm	1)		230 x 65 x 177	313 x 60 x 239	395 x 65 x 294	
iPC without maintenance	License VJDSNRTMPC	AC	MPCST11NAJ00T	MPCST21NAJ20T	HMIPSC7AE03	_
(CompactFlash disk)	for Vijeo. iPC without maintenance unlimited, to be ordered separately.	DC	MPCST11NDJ00T	MPCST21NDJ20T	HMIPSC7DE03	_
iPC without maintenance	License VJDSNRTMPC	AC	_	_	_	HMIPSF7AP03
(Flash disk)	for Vijeo. iPC without maintenance unlimited, to be ordered separately.	DC	_	_	_	HMIPSF7DP03
Vijeo Citect Lite 1200 E/S	,	AC	_	_	_	HMIPSF7APL3
Vijeo Citect Full 500 E/S		AC	_	_	_	HMIPSF7APF3

⁽¹⁾ DC version, only

Magelis Compac 12", 15" touch scr			and a		THE .		
Туре			Compact iPC 8.4"	Compact iPC 12"	Compact iPC 15"		
Pre-installed software			Windows XP PRO, Vije	o Designer Run Time De	emo		
Touch screen			8.4" LCD TFT	12" LCD TFT	15" LCD TFT		
Resolution			SVGA 800 x 600	XGA 1024 x 768	XGA 1024 x 768		
Front-side port			_	1 x USB	1 x USB		
Processor			Celeron M @ 1 GHz	Celeron M @ 1.5 GHz	Celeron M @ 1.6 GHz		
RAM			512 MB ▶ 1024 MB	512 MB ▶ 1024 MB	512 MB ▶ 2 GB 1.5 GB ▶ 2 GB		
Drive devices			_	_	Engraver DVD		
Storage			HDD ≥ 80 GB	HDD ≥ 250 GB or Flash disk 15 GB	HDD ≥ 80 GB or Flash disk 15 GB		
Extension			_	1 PCMCIA slot (for 1 type II card)	1 PCMCIA slot (for 1 ty 2 type I card)	/pe III card or	
Ethernet ports			2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)		
I/O ports			4 x USB, 2 x RS 232	4 x USB, 1 x RS 232	4 x USB, 4 x RS 232		
Certification			UL508, CSA	UL508, CSA	UL508, CSA, UL1604 (Haz-Loc Class 1, Div 2)	
Dimensions W x D x H (mn	n)		230 x 120 x 177	313 x 100 x 239	395 x 100 x 294		
General purpose	License VJDSNRTMPC	AC	MPCKT12NAX00N	MPCKT22NAX20N	MPCKT55NAX20N	_	
(Hard drive)	for Vijeo. Designer Run Time ≥ 5.1, unlimited, to be ordered separately.	DC	_	_	MPCKT55NDX20N	_	
Heavy duty		AC	_	MPCKT22MAX20N	MPCKT55MAX20N -		
(Flash disk)	SCADA Edition (Vijeo Citect)	AC					
	Vijeo Citect Lite 1200 I/O		_	_	-	MPCKT55MAX20L	
	Vijeo Citect Full 500 I/O		_	_	_	MPCKT55MAX20V	

Magelis (Box) · · · · · Embedded BOX and PC BOX

Magelis Smart BOX, Magelis Compact PC BOX			A Desired to the latest terms of the latest te	
Туре			Smart BOX	Compact PC BOX
Pre-installed software			Windows XP PRO, Vijeo Designer Run Time De	emo
Processor			Celeron M @ 600 MHz	Celeron M @ 1 GHz
RAM	Default ► Max		256 MB ▶ 1024 MB	512 MB ▶ 1024 MB
Storage			CF 2 GB	HDD ≥ 80 GB
Drives			_	_
Extension			_	1 x PCI
Video ports			1 x RGB	1 x RGB
Ethernet ports			2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)
I/O ports			4 x USB, 2 x RS 232	4 x USB, 2 x RS 232
Certification			UL 508, CSA, UL1604 (Haz-Loc Class 1 Div 2), ATEX2-22, Marine DNV (1)	UL 508, CSA
Connection	For iDisplay		Yes	Yes
	For Front Panel		No	No
Dimensions W x D x H (mm	n)		218 x 65 x 165	218 x 115 x 165
iPC general purpose	License VJDSNRTMPC	AC	_	MPCKN02NAX00N
(Hard drive)	for Vijeo. Designer Run Time ≥ 5.1, unlimited, to be ordered separately.		_	
iPC without maintenance	License VJDSNRTMPC	AC	MPCSN01NAJ00T (2)	_
(CompactFlash disk)	for Vijeo. Designer Run Time ≥ 5.1, unlimited, to be ordered separately.	DC	MPCSN01NDJ00T	_

⁽¹⁾ Marine DNV and Atex 2-22 on DC version only (2) With delivered external alimentation adaptator

Magelis Flex PC E	is Flex PC BOX			11.					
Туре			Flex PC BO	XF		Flex PC BC	ХH		
Pre-installed software			Windows XP P	RO, Vijeo Desig	ner Run Time De	emo			
Processor			Celeron M 1.86 GHz	Core Duo 2 Gl	Hz	Celeron M 1.86GHz	Core Duo 2 Gl	Hz	
RAM	Default ► Max		512MB ▶ 2 GB	1 GB ▶ 2 GB	2 GB	512MB ► 2 GB	1 GB ▶ 2 GB	2 GB	
Storage			HDD ≥ 250 GE or Flash Disk 1	3 with option RA 5 GB	ID	HDD ≥ 250 GB with option RAID or Flash Disk 15 GB			
Drives			Engraver DVD						
Extension			2 PCI			4 PCI			
Video ports			1 x DVI-I (RGB)						
Ethernet ports			2 (10/100/1 G + 10/100)						
I/O ports			4 x USB, 4 x RS 232						
Certification			UL 508, cUL, UL 1604 (Haz-Loc Class 1 Div 2), ATEX2-22 (1)						
Connection	For iDisplay		Yes						
	For Front Panel		Yes						
Dimensions W x D x H (mn	n)		243 x 160 x 28	39		243 x 205 x 28	39		
iPC general purpose	License VJDSNRTMPC	AC	MPCFN02NAX00N	MPCFN05NAX00N	_	MPCHN02NAX00N	MPCHN05NAX00N	_	
(Hard drive)	for Vijeo. Designer Run Time ≥ 5.1, unlimited, to be ordered separately.	DC	MPCFN02NDX00N	MPCFN05NDX00N —		MPCHN02NDX00N	MPCHN05NDX00N	_	
iPC without maintenance		AC	_	MPCFN05MAX00N	_	_	MPCHN05MAX00N	_	
(CompactFlash disk)		DC	_	_	MPCFN05MAX00V	_	_	MPCHN05MAX00V	

Magelis · · • • • • • • • • • • • • • • Front Panel

Magelis iPC to be connected only with Magelis Flex PC BOX				
Туре	12" touch and keypad	15" touch and keypad	15" touch	19" touch
Touch screen	12" LCD TFT	15" LCD TFT	15" LCD TFT	19" LCD TFT
Resolution	SVGA 800 x 600	XGA 1024 x 768	XGA 1024 x 768	SXGA 1280 x 1024
Front-side port	1 x USB	1 x USB	1 x USB	1 x USB
Dimensions W x D x H (mm)	420 x 31 x 320	483 x 31 x 365	420 x 31 x 320	460 x 44 x 390
References	MPCYB20NNN00N	MPCYB50NNN00N	MPCYT50NNN00N	MPCYT90NNN00N

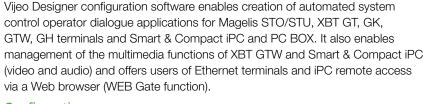
Magelis · · · · • • • • • • • • • • • • • • Industrial Display

Magelis iDisplay with 15" and 19" touch screen			· · · · · · · · · · · · · · · · · · ·
Туре	15" touch and keypad	15" touch	19" touch
Touch screen	15" LCD TFT	15" LCD TFT	19" LCD TFT
Resolution	XGA 1024 x 768	XGA 1024 x 768	SXGA 1280 x 1024
Front-side port	1 x USB	1 x USB	1 x USB
Video ports	1 x VGA and 1 x DVI	1 x VGA and 1 x DVI	1 x VGA and 1 x DVI
Touch screen ports	1 x USB and 1 x RS 232	1 x USB and 1 x RS 232	1 x USB and 1 x RS 232
Power supply	100240 VAC	100240 VAC	100240 VAC
Certification	UL 508, CSA	UL 508, CSA	UL 508, CSA
Dimensions W x D x H (mm)	483 x 65 x 365	395 x 60 x 294	460 x 65 x 390
References	MPCNB50NAN00N	MPCYT50NAN00N	MPCYT90NAN00N

Vijeo Designer · · · · · · · · · Configuration Software



Magelis STO/STU, XBT GT, GK, GTW, GH Magelis Smart, Compact iPC and PC BOX*



Configuration

W

T.

IE.

應

Animated

graphical

objects library

Vijeo Designer configuration software enables fast, simple processing of operator dialogue projects thanks to its ergonomics, developed around six configurable windows. It also offers comprehensive application management tools:

- Project creation; projects comprising one or several targets (terminal or **iPC**)
- Recipe editor (32 groups of 256 recipes of max. 1024 ingredients)
- User action list (eg. script) for application adaptability
- Application variable cross-referencing
- Vectorial graphic library for more attractive graphic screens
- Application block diagram documentation
- Simulation mode for simple design office application testing
- High-performance graphic editor for simple block diagram creation (over 30 animated pre-configured generic objects)
- Support of layers and masks for faster development.
- Data sharing (up to 300 variables on eight terminals)
- Management of 40 alphabets (including simplified Chinese, Korean, Arabic and Hebrew) with the opportunity to have 15 languages per application and dynamic change
- Programmable controller database sharing (Unity Pro[™], PL7[™], Concept[™] TwidoSoft™, ProWORX™, ModSoft™), process variables or operators actions
- Advanced traceability function (periodic, at event or on request)
- Project backup on terminal for simple maintenance
- User-friendly data recovery tool
- Support of standard USB peripherals (USB key up to 4 GB)
- Support of external USB keyboards and mice
- Integration with Schneider Electric equipment (buffer diag., variables access, Unity DDT and unlocated variables)
- Event-triggered e-mail funtion
- Over 35 third-party protocols
- Multilingual software: English, French, German, Italian, Spanish, Portuguese and Simplified Chinese
- Printing function

Industrial intelligence option: Intelligent Data Service

Intelligent Data Service (IDS) is an extension of Vijeo Designer for the PC (Magelis or standard PC) which supports the implementation of control solutions for one or a number of terminals (up to 8). This extension offers total traceability. Both process variables and operator actions are tracked so that the right decisions can be made at the right time (Industrial Business Intelligence).

Powerful Data can be collected from multiple terminals via Ethernet without impairing HMI reaction times.

Flexible Various storage methods are supported, CSV file can be read directly in MS Excel, recording in user-defined format in an SQL database or secure IDV (Intelligent Data Vault) files to ensure compatibility with the requirements of 21 CFR Part 11.



Navigator

Property

inspector

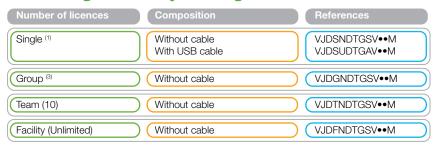
Application

Feedback

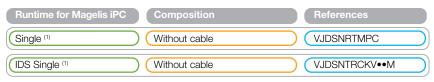
zone

^{*}Available with Vijeo Designer ≥ 5.0

Selection guide for Vijeo Designer



The software is supplied on DVD and runs under Windows XP, Windows Vista and Windows 7. •• represent the version number. For example VJDSNDTGSV51M is Vijeo Designer version 5.1. Versions are subject to change.



• • represents the version number.

Vijeo Designer Lite · · · • • • • Configuration Software



Magelis XBT N, R, RT

Vijeo Designer Lite configuration software enables the creation of simple operator dialogue applications on Magelis XBT N, R and RT Small Panel ranges. It also enables transparent recovery of all applications for Magelis XBT N and R $\,$ produced using its predecessor: XBT L1000.

For simplified installation and improved consistency, Vijeo Designer Lite retains the main characteristics of Vijeo Designer software (ergonomics, interface ...) which has become the reference in the HMI field.

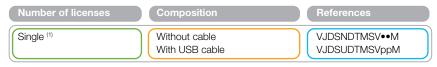
Configuration

Vijeo Designer Lite software enables fast and easy creation of different types of pages (application page, alarm pages, help pages...) and the installation of navigation between pages.

It offers:

- Graphic objects developed for Magelis XBT RT (bar charts, trend curves...)
- · Character fonts Byzantine, simplified Chinese, Cyrillic and Japanese
- Project reports
- Application simulation on PC
- Six languages: English, French, German, Italian, Spanish and Chinese.

Selection guide for Vijeo Designer Lite



Software is delivered on CD-ROM and can be executed under Windows 2000, XP and Vista. • represents the version number.

These references are downloadable on Schneider-Electric.com.

Magelis, Citect, Concept, M340, Modicon, ModSoft, PL7, Premium, ProWORX, Quantum, SoMachine, TeSys, TSX Micro, Twido, TwidoSoft, Unity Pro, Vijeo, Zelio, Schneider Electric and logo, and "Make the most of your energy" are trademarks or registered trademarks of Schneider Electric or its affiliates in the United States and other countries. Other trademarks used herein are the property of their respective owners.

Schneider Electric USA, Inc.

Automation and Control Center of Excellence 8001 Knightdale Blvd. Knightdale, NC 27545 Tel: 919-266-3671 www.schneider-electric.us

Schneider Electric Canada, Inc.

19 Waterman Avenue Toronto, ON M4B 1Y2 Tel: 1-800-565-6699 www.schneider-electric.ca

