

Human/Machine Interfaces

Magelis™ Panels and Industrial PCs

Global selection guide

January 2017



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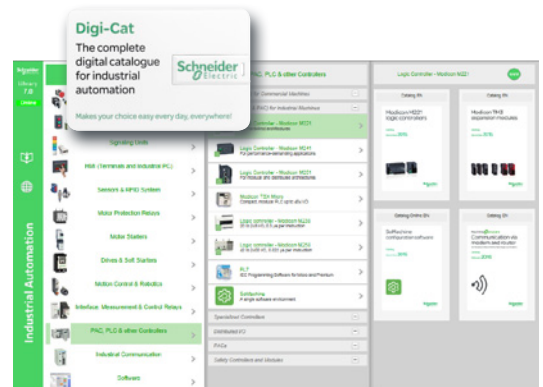
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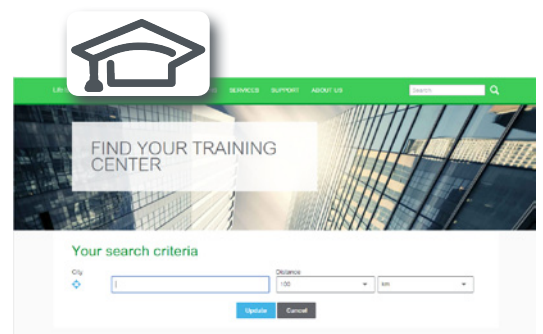
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Human Machine Interfaces

Small and Advanced panels

Magelis STO & STU, Magelis XBTGH

Applications		Display of graphic pages	
Type of terminal		Small panels with touch screen	
			
Screen	Definition	320 x 240 pixels, QVGA	320 x 240 pixels, QVGA
	Type	3.5" color TFT LCD	5.7" color TFT LCD
Data entry		Via touch screen	
Memory capacity	Application	32 MB Flash EPROM	
	Expansion	—	
Functions	Maximum number of pages	Limited by internal Flash EPROM memory capacity	
	Variables per page	Unlimited	
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, curves, buttons, LEDs	
	Recipes	32 groups of 64 recipes	
	Curves	Yes, with log	
	Alarm logs	Yes	
	Real-time clock	Access to the PLC real-time clock	
	Multimedia I/O	—	
	Buzzer	Yes	
Communication	Asynchronous serial link	RS-232C/RS-485	
	Downloadable protocols	Uni-TE, Modbus and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens	
	Printer link	USB port for serial or parallel printer	
	USB ports	Type A connector and 1 device type mini-B	
	Networks	1 Ethernet TCP/IP port (10BASE-T/100BASE-TX)	
Development software		Vijeo Type A connector (on Windows XP Professional and Windows 7 Business 32-bit and 64-bit)	
Operating system		Magelis	
References		HMISTU655 HMISTU655W	HMISTU855 HMISTU855W
Page		Please refer to Magelis STU and STO Small panels catalog on our website www.schneider-electric.com .	

Display of graphic pages		Display of text messages, graphic objects and synoptic views Control and configuration of data	
Small panels with touch screen		Advanced hand-held panels	
			
			
200 x 80 pixels, backlit - Green, orange and red, or - White, pink and red		480 x 272 pixels	
3.4" monochrome STN LCD		4.3" color TFT LCD	
Via touch screen		Via touch screen	
16 MB Flash EPROM		32 MB Flash EPROM	
-		By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card (1)	
Limited by internal Flash EPROM memory capacity		Limited by capacity of internal Flash EPROM memory or CF card memory	
Unlimited		Unlimited (8000 variables max.)	
Alphanumeric, bitmap, bargraph, gauge, curves, buttons, LEDs		Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED	
32 groups of 64 recipes		32 groups of 64 recipes comprising 1024 ingredients max.	
Yes, with log		Yes, with log	
Yes		Yes	
Access to the PLC real-time clock		Option: RTC battery set	
-		Built-in	
Yes		1 audio output	
-		-	
RS-232C/RS-485 (2)		RS-232C/RS-422/RS-485 (COM1)	
RS-232C using Zelio protocol (3)			
Uni-TE, Modbus and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens in		Uni-TE (4), Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Rockwell Automation and Siemens	
USB for serial or parallel printer		-	
1 host type A and 1 device type mini-B		1	
1 Ethernet TCP/IP port (10BASE-T/100BASE-TX) (5)		1 Ethernet TCP/IP port (10BASE-T/100BASE-TX)	
Vijeo Designer (on Windows XP Professional and Windows 7 Business 32-bit and 64-bit)		Vijeo XD (on Windows 7 and Windows 8)	
Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)		Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)	
Magelis		Magelis (266 MHz RISC CPU)	
HMISTO5●●		HMISTO7●5	
		XBTGH2460/ XBTGH2460B (6)	
Please refer to Magelis STU and STO Small panels catalog on our website www.schneider-electric.com .		Please refer to Magelis GH Advanced hand-held panels catalog on our website www.schneider-electric.com .	

(1) Except for HMIGTW●●●● with 4 GB SD memory card.

(2) Only HMISTO511/512.

(3) Only HMISTO501.

(4) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.

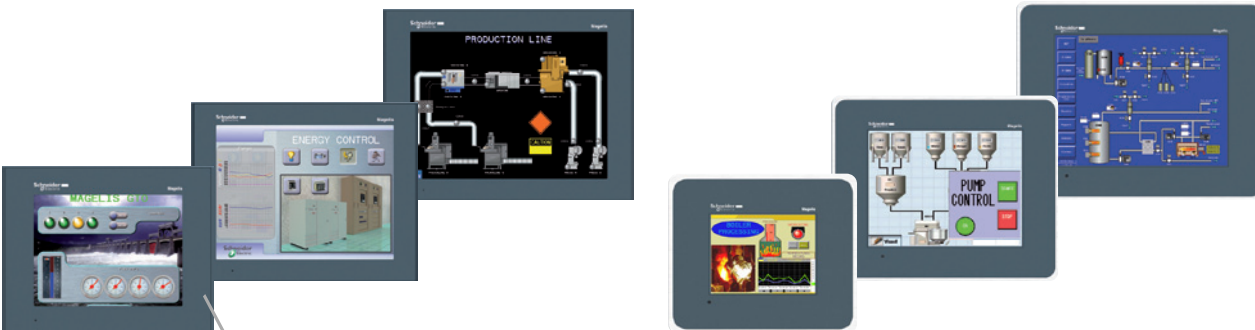
(5) Only HMISTO531/532.

(6) Version without Emergency stop button.

Human Machine Interfaces
Advanced optimum panels
Magelis GTO

Applications		Display of text messages, graphic objects, and synoptic views Control and configuration of data		
Type of terminal		Advanced optimum panels with touch screen		
				
Screen	Definition	320 x 240 pixels, QVGA backlit		800 x 480 pixels, WVGA backlit
	Type	3.5" color TFT LCD	5.7" color TFT LCD	W7.0" color TFT LCD
Data entry	Static function keys	Via touch screen	Via touch screen	Via touch screen
	Dynamic function keys	6 function keys (static or dynamic)	—	8 function keys (static or dynamic)
	Service keys	—	—	—
	Alphanumeric keys	—	—	—
Memory capacity	Applications	64/96 MB Flash EPROM (1)		96 MB Flash EPROM
	Expansion	—	By 4 GB SD card (except HMIGTO2300)	
Functions	Maximum number of pages	Limited by internal Flash EPROM memory capacity	Limited by capacity of internal Flash EPROM memory or of SD card	
	Variables per page	Unlimited (8000 variables max.)		
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED		
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.		
	Curves	Yes, with log		
	Alarm logs	Yes		
	Real-time clock	Built-in		
	Discrete I/O	—		
	Multimedia I/O	—		
Degree of protection (according to IEC 60529)		IP 65 (IP 67 with addition of a cover)		
Communication	Asynchronous serial link	RS-232C (COM1) and RS-485 (COM2) except HMIGTO1310: RS 232C/485 (COM1)		
	Downloadable protocols	Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens		
	Asynchronous serial link	RS-232C (COM1) and RS-485 (COM2) except HMIGTO1310: RS 232C/485 (COM1)		
	USB ports	1 type A host connector + 1 type mini-B connector		
	Buses and networks	Ethernet TCP/IP (10BASE-T/100BASE-TX) (3), Modbus Plus and Fipway via USB gateway		
		RS-232C (COM1) serial link (4) and USB port for parallel printer		
Development software		Vijeo Designer (on Windows XP and Windows 7)		
Operating system		Magelis (333 MHz RISC CPU)		
References		HMIGTO1300 HMIGTO1310	HMIGTO2300 HMIGTO2310	HMIGTO3510
Page		Please refer to Magelis GTO Advanced panels catalog on our website www.schneider-electric.com.		

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
(3) Except HMIGTO1300 and GTO2300 (Modbus Plus and Fipway via USB gateway only).
(4) Except HMIGTO1310 (USB port for parallel printer only).

Display of text messages, graphic objects, and synoptic views Control and configuration of data					
Advanced optimum panels with touch screen			Advanced optimum panels with touch screen, “Stainless Steel” version		
					
640 x 480 pixels, VGA backlit	640 x 480 pixels, VGA backlit	800 x 600 pixels, SVGA backlit	320 x 240 pixels, QVGA backlit	640 x 480 pixels,VGA backlit	800 x 600 pixels, SVGA backlit
7.5" color TFT LCD	10.4" color TFT LCD	12.1" color TFT LCD	5.7" color TFT LCD	10.4" color TFT LCD	12.1" color TFT LCD
Via touch screen					
-					
-					
-					
96 MB Flash EPROM					
By 4 GB SD card					
Limited by capacity of internal Flash EPROM memory or of SD card					
Unlimited (8000 variables max.)					
Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED					
32 groups of 64 recipes comprising 1024 ingredients max.					
Yes, with log					
Yes					
Built-in					
-					
-					
IP 65 (IP 67 with addition of a cover)			IP 66K (Front panel with stainless steel frame) for food & beverage environment		
RS-232C (COM1) and RS-485 (COM2)					
Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens					
RS-232C (COM1) and RS-485 (COM2)					
1 type A host connector + 1 type mini-B connector					
Ethernet TCP/IP (10BASE-T/100BASE-TX), Modbus Plus and Fipway via USB gateway					
RS-232C (COM1) serial link and USB port for parallel printer					
Vijeo Designer (on Windows XP and Windows 7)					
Magelis (333 MHz RISC CPU)					
HMIGTO4310	HMIGTO5310	HMIGTO6310	HMIGTO2315	HMIGTO5315	HMIGTO6315
Please refer to Magelis GTO Advanced panels catalog on our website www.schneider-electric.com .					

Human Machine Interfaces
Universal panels
Magelis GTU

Applications		Display of text messages, graphic objects, and synoptic views Control and configuration of data		
Type of display module		Advanced display		
				
Screen	Definition	800 x 480 pixels, 262 K colors	1,280 x 800 pixels, 262 K colors	1,280 x 800 pixels, 262 K colors
	Type	7" color TFT	10" color TFT	12" color TFT
Data entry	Touch pad	Single-touch resistive	Single-touch resistive	Single-touch resistive
Functions	Brightness sensor	—	—	—
	Front USB ports	—	—	—
	Wireless Ethernet	—	—	—
Ambient temperature		0...60 °C		
Supply voltage		12...24 V ---		
Dimensions	External W×H×D (mm/in.)	204 × 149 × 67/ 8.03 × 5.86 × 2.64	269 × 199 × 67/ 10.59 × 7.83 × 2.64	309 × 231 × 67/ 12.17 × 9.09 × 2.64
	Cut-out W×H (mm/in.)	190 × 135/7.48 × 5.31	255 × 185/10.03 × 7.28	295 × 217/11.61 × 8.54
Standards and certifications		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX Zone 2/22, EAC, KC		
Marine certifications		BV, CCS, DNV, GL, LR, RINA, ABS		
Compatible box models		Premium and Open box models		
Display module reference		HMIDT351	HMIDT551	HMIDT651
Pages		Please refer to Magelis GTU catalog on our website www.schneider-electric.com .		

Type of box module		Premium box		
				
CPU		RISC, 600 MHz		
Operating system		Real Time Magelis on 1 GB SD storage		
Pre-installed software		Vijeo Designer RT (1)		
Memory	RAM/SDRAM (backup)	256 MB/512 KB		
	Storage units	x2 SD card		
Functions	Real-time clock	Yes, built-in		
	Graphic	Alphanumeric, bitmap, bargraph, gauge, tank, indicator, curve, polygon, button, lamp		
	Data	Alarm with log, trend with log, recipe, script		
	Maximum number of variables	8,000		
Protocols		Uni-TE, Modbus, Modbus TCP/IP, and PLC brands Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB		
Communication	Ethernet port	x2 RJ45 10BASE-T/100BASE-TX/1000BASE-T		
	Serial line	RJ45 RS-485 (COM1) + SubD9 RS-232/RS-485/RS-422 (COM2)		
	Fieldbus	Fipio/Fipway and Modbus Plus via USB Gateway		
	USB	2 USB Type-A (2.0) + 1 USB Type-mini B (2.0)		
Discrete I/O		Terminal block with 1 speaker + 1 alarm + 1 buzzer output		
Multimedia I/O		—		
Standards and certifications		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX (1) Zone 2/22, EAC, KC		
Marine certifications		BV, CCS, DNV, GL, LR, RINA, ABS		
Display units supported		HMIDT351, HMIDT551, HMIDT651, HMIDT542, HMIDT642, HMIDT732		
Compatible display models		Advanced and Smart display models		
Box module reference		HMIG3U		
Pages		Please refer to Magelis GTU catalog on our website www.schneider-electric.com .		

(1) Intelligent Data Service (IDS) of Vijeo Designer is an add-on option.
Note: All combinations of display and box modules are possible except for HMIDT643.

Display of text messages, graphic objects, and synoptic views Control and configuration of data			
Smart display			
			
800 x 600 pixels, 16 M colors	1,024 x 768 pixels, 16 M colors	1,024 x 768 pixels, 16 M colors	
10.4" color TFT	12.1" color TFT	15" color TFT	
Multi-touch resistive	Multi-touch resistive	Multi-touch resistive	
Yes	Yes	Yes	
1 host + 1 device	1 host + 1 device	1 host + 1 device	
—	—	Yes (up to 30 m/98 ft)	—
0...60 °C			
12...24 V ---			
273 × 215 × 67/ 10.74 × 8.46 × 2.64	315 × 241 × 67/ 12.40 × 9.50 × 2.64	397 × 296 × 67/ 15.63 × 11.65 × 2.64	
259 × 201/10.20 × 7.91	302 × 228/11.90 × 8.98	384 × 283/15.11 × 11.14	
CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX Zone 2/22, EAC, KC			
BV, CCS, DNV, GL, LR, RINA, ABS			
Premium and Open box models		Open box model	Premium and Open box models
HMIDT542	HMIDT642	HMIDT643 (2)	HMIDT732
Please refer to Magelis GTU catalog on our website www.schneider-electric.com .			

Open box	
	
x86, 1.3 GHz	
Windows 7 Embedded on 16 GB CFast storage	
Vijeo Designer RT (1), Office & PDF Readers, CAD Viewer, Internet browser, .Net 4.0, VNC Client/Server, Vijeo Citect web client (1)	
2 GB/512 KB	
SD card and x2 CFast	
Yes, built-in	
Alphanumeric, bitmap, bargraph, gauge, tank, indicator, curve, polygon, button, lamp	
Alarm with log, trend with log, recipe, script	
12,000	
Uni-TE, Modbus, Modbus TCP/IP and PLC brands Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB	
x2 RJ45 10BASE-T/100BASE-TX/1000BASE-T	
RJ45 RS-485 (COM1) + SubD9 RS-232/RS-485/RS-422 (COM2)	
Modbus Plus via USB Gateway	
3 USB Type-A (2.0) + 1 USB Type-mini B (2.0)	
Terminal block with 1 speaker + 1 alarm + 1 buzzer output	
1 Microphone input + 1 DVI output	
CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX (1) Zone 2/22, EAC, KC	
BV, CCS, DNV, GL, LR, RINA, ABS	
HMIDT351, HMIDT551, HMIDT651, HMIDT542, HMIDT642, HMIDT643, HMIDT732	
Advanced and Smart display models	
HMIG5U	
Please refer to Magelis GTU catalog on our website www.schneider-electric.com .	

(2) HMIDT643 is compatible with only box HMIG5U and requires Vijeo Designer version V6.2 SP3 or later.

Human Machine Interfaces
Advanced Keypad-Touchscreen panels
Magelis GK

Applications		Display of text messages, graphic objects and synoptic views Control and configuration of data
Type of terminal		Keypad-Touchscreen panels
		
Screen	Type	Color TFT LCD
	Size	5.7"
	Resolution	QVGA, 320 x 240 pixels, 65 K colors
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F
Data entry		Via keypad and/or touchscreen (configurable) and/or industrial pointer
	Static function keys	10
	Dynamic function keys	14
	Service keys	8
	Alphanumeric keys	12
Memory capacity	Application	128 MB Flash EPROM
	Expansion	4 GB SD Card
Functions	Maximum number of pages	Limited by capacity of internal Flash EPROM memory or SD card memory
	Variables per page	Unlimited (8000 variables max.)
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
	Discrete I/O	–
	Multimedia I/O	–
Communication	Downloadable protocols	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens
	Asynchronous serial link	RS-232C (COM1) RS-485 (COM2)
	USB ports	2
	Bus and networks	Modbus Plus, Fipway with USB gateway Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Printer link	RS-232C (COM1) serial link, USB port for parallel printer
Development software		Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)
Operating system		Magelis (CPU 333 MHz RISC)
References		HMIGK2310
Page		Please refer to Magelis GK Advanced Keypad-Touchscreen panels catalog on our website www.schneider-electric.com .

Display of text messages, graphic objects and synoptic views Control and configuration of data	
Keypad-Touchscreen panels	
	
Screen	Color TFT LCD
	10.4"
	VGA, 640 x 480 pixels, 65 K colors
	Life span > 50,000 hrs @ 25 °C/77 °F
Data entry	Via keypad and/or touchscreen (configurable) and/or industrial pointer
	12
	18
	8
	12
Memory capacity	128 MB Flash EPROM
	4 GB SD Card
Functions	Limited by capacity of internal Flash EPROM memory or SD card memory
	Unlimited (8000 variables max.)
	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
	32 groups of 64 recipes comprising 1024 ingredients max.
	Yes, with log
	Yes
	Built-in
	–
	–
Communication	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens
	RS-232C (COM1) RS-485 (COM2)
	2
	Modbus Plus, Fipway with USB gateway Ethernet TCP/IP (10BASE-T/100BASE-TX)
	RS-232C (COM1) serial link, USB port for parallel printer
Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)	
Magelis (CPU 333 MHz RISC)	
HMIGK5310	
Please refer to Magelis GK Advanced Keypad-Touchscreen panels catalog on our website www.schneider-electric.com .	

Human Machine Interfaces
Industrial PC and display
Magelis HMIP Panel PCs

Type of Magelis iPC		Magelis HMIPS S-Panel PC	
		HMIPSO Optimized	HMIPSP Performance
			
Fanless		★★★★★	
Mounting type		Panel PC	
Display	Touch screen	☐ W10" multi-touch projected capacitive technology screen ☐ W15" multi-touch projected capacitive technology screen	
	Definition	HD WSVGA, 1280 × 800 pixels	HD WFXGA, 1366 × 768 pixels
	Front protection	IP 66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch	
CPU	Processor	Intel® Atom E3827 dual-core (1.75 GHz)	Intel Core™ i3-4010U dual-core 4 th generation (1.7 GHz)
	Expansion slots	1 optional full-size mini PCIe slot with optional interface slot (1)	1 full-size mini PCIe slot with optional interface slot
	Storage	CFast card ≥ 16 GB, or SSD flash disk ≥ 80 GB with 2 million hours MTBF (1), or HDD hard disk ≥ 500 GB Enterprise 24/7 (1)	
	RAM	4 GB (not extendable)	8 GB (not extendable)
	Hot-swap RAID HDD and battery backup	—	
Operating system		None, or WES 7 Premium SP1 (64-bit), or Windows® 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	
Supply voltage		24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYPSOMAC1.	24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.
Standards and certifications		☐ CE ☐ cULus (UL IT 60950, CSA IT 60950) ☐ RCM ☐ EAC ☐ CCC ☐ FCC (part 15 EMC Class A)	☐ CE ☐ cULus (UL IT 60950, CSA IT 60950) ☐ RCM ☐ EAC ☐ CCC ☐ FCC (part 15 EMC Class A)
Software		☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ. ☐ Vijeo XL with Configured-To-Order Magelis iPC ☐ Vijeo Citect DVD is only for installation (depending on the model). Software activation license to be ordered separately.	
References		HMIPSO●552D1●01 HMIPSO●752D1●01	HMIPSP●752D1●01 HMIPSP●952D1●01
Pages		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	
Configured-To-Order		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	

(1) With HMIYPADPSOSTO1 expansion kit for HMIPSO allowing 1 HDD/SSD slot and 1 mini PCIe slot.
(2) Available with HMIPSO and HMIPEP Configured-To-Order offer only.

Magelis HMIPEP Enclosed Panel PC		Magelis HMIP Panel PC 12"	
HMIPEP Performance		HMIPU Universal	HMIPP Performance
			
★★★★★		★★★★★	★★★★★
Enclosed PC		Panel PC	
☐ W19" multi-touch projected capacitive technology screen		☐ 12" single-touch resistive	
HD WFXGA, 1366 × 768 pixels		XGA, 1024 × 768 pixels	
IP 66 on all 6 faces, NEMA 4X indoor, and 7H hardness anti-scratch		IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
Intel Core i3-4010U dual-core 4 th generation (1.7 GHz)		Intel Core 827E (1.4 GHz)	Intel Core i3-3217UE dual-core (1.6 GHz)
1 full-size mini PCIe slot		2 optional PCI/PCIe slots with expansion module HMIPCI●61	
SSD flash disk ≥ 80 GB with 2 million hours MTBF		CFast card ≥ 4 GB (SLC technology) or SSD flash disk ≥ 60 GB with 2 million hours MTBF	CFast card ≥ 4 GB (SLC technology) or SSD flash disk ≥ 60 GB with 2 million hours MTBF
8 GB (not extendable)		2 GB (user extendable)	4 GB (user extendable)
—		Optional battery backup	Optional hot-swap RAID HDD and battery backup
None, or WES 7 Premium SP1 (64-bit), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)		Windows Embedded Standard 2009 or Windows 7 Ultimate 64-bit Professional	Windows® 7 Ultimate (64-bit Multi-language)
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.		24 V ~ or 100...240 V ~	
☐ CE ☐ cULus (UL IT 60950, CSA IT 60950) ☐ RCM ☐ EAC ☐ CCC ☐ FCC (part 15 EMC Class A)		☐ CE ☐ cULus (UL 508, CSA 22.2 No.142) ☐ cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 No. 213) ☐ C-Tick ☐ GOST	
☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ. ☐ Vijeo XL with Configured-To-Order Magelis iPC ☐ Vijeo Citect DVD is only for installation (depending on the model). Software activation license to be ordered separately.		☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ.	
HMIPEP●952D1●01		HMIPUC6●●●●● HMIPUF6●●●●●	HMIPUH6●●●●● HMIPPF6●●●●● HMIPPH6●●●●●
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .			
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .			

(3) Win 8.1 requires user activation.

Human Machine Interfaces
Industrial PC and display
Magelis Modular Box PC Magelis
HMIBM Modular Box PCs and
Modular HMIDM Displays

Type of Magelis iPC		Magelis HMIBM Modular Box PC HMIBMU Universal	
			
Fanless		★★★★ (1)	
Box PC or Panel PC mounting		Box PC: HMIBM Box wall/book mounting or Panel PC: HMIBM Box + associated HMIDM Display	
CPU (1)	Processor	Intel Celeron® 2980U dual-core (1.6 GHz)	
	Expansion slots	2 full-size mini PCIe with 2 optional interface slots	
	Storage	None or CFAST card ≥ 16 GB, or SSD flash disk ≥ 80 GB with 2 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
	RAM	4 GB (not extendable)	8 GB (not extendable)
Operating system		None, or WES 7 Premium SP1 (64-bit), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	None or Configured-To-Order offer
Conformal coating		–	Yes
Supply voltage		18...36 V $\overline{\text{---}}$ or 100...240 V $\sim$ with modular power adapter HMIYMMAC1	
Standards and certifications		☐ CE ☐ RCM ☐ EAC ☐ CCC ☐ cULus Industrial Control (UL 61010, CSA 22.2 No.142) ☐ cULus Hazardous locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) ☐ CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22	
Software		Vijeo Designer and Vijeo XD RT Demo	☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ ☐ Vijeo XL with Configured-To-Order Magelis iPC ☐ Vijeo Citect DVD, depending on the model (4) None or Configured-To-Order offer
References		HMIBMU•I29D••01	HMIBMU0I29D•00A
Pages		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	
Configured-To-Order		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	
Modular displays for Panel PC mounting		Magelis HMIDM Modular Display	
 		 	
Display	Type	4:3 15" single-touch resistive	W15" multi-touch capacitive
	Definition	XGA, 1024 × 768 pixels	WHD FWXGA, 1366 × 768 pixels
	Front protection	IP 66, NEMA 4X indoor, and 7H hardness anti-scratch	
	Front USB port	1 USB 2.0 port	None
Standards and certifications		☐ CE ☐ Marine DNV ☐ RCM ☐ EAC ☐ CCC ☐ cULus Industrial Control (UL 61010, CSA 22.2 No.142) ☐ cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) ☐ CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22 ☐ FCC (part 15 EMC Class A)	
Panel PC mounting		All HMIBM Modular Box PCs are mounted behind the displays	
References		HMIDM7421	HMIDM7521
Pages		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	

(1) HMIYBFT4BM11 fan kit is required only when PCI/PCIe expansions cards above 3 W are installed.
(2) Available with Configured-To-Order offer only.

Magelis HMIBM Modular Box PC HMIBMP Performance	
	
★★★★ (1)	
Box PC: HMIBM Box wall/book mounting or Panel PC: HMIBM Box + associated HMIDM Display	
Intel Core i7-4650U 4th generation (1.7 GHz)	
2 full-size mini PCIe with 2 optional interface slots	
None or 2 PCI/PCIe	
None, or SSD flash disk ≥ 80 GB with 2 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
8 GB (not extendable)	16 GB (not extendable)
Optional	
None, or WES 7 Premium SP1 (64-bit) (2), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	None or Configured-To-Order offer
	Yes
18...36 V $\overline{\text{---}}$ or 100...240 V $\sim$ with modular power adapter HMIYMMAC1	
☐ CE ☐ cULus Industrial Control (UL 61010, CSA 22.2 No.142) ☐ cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) ☐ CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22 ☐ Marine DNV (without HDD) ☐ RCM ☐ EAC ☐ CCC	
Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ Vijeo XL with Configured-To-Order Magelis iPC Vijeo Citect DVD, depending on the model (4)	None or Configured-To-Order offer
HMIBMP•I74D••01	HMIBMP0I74D•00A
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	
Magelis HMIDM Modular Display	
 	
W19" multi-touch capacitive	W22" multi-touch capacitive
WHD FWXGA, 1366 × 768 pixels	Full HD, 1920 × 1080 pixels
IP 66, NEMA 4X indoor, and 7H hardness anti-scratch	
None	
☐ CE ☐ CCC ☐ EAC ☐ RCM ☐ cULus (UL IT 60950, CSA IT 60950) ☐ FCC (part 15 EMC Class A)	
All HMIBM Modular Box PCs are mounted behind the display	
HMIDM9521	HMIDMA521
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	

(3) Win 8.1 requires user activation.
(4) Vijeo Citect DVD is only used for installation. Software activation license has to be ordered separately.

Human Machine Interfaces
Industrial PC and display
Magelis HMIBS S-Box and HMIR Rack PCs,
Magelis HMDID iDisplay monitors

Type of Magelis iPC		Magelis HMIBS S-Box PC			
		HMIBSO Optimized	HMIBSU Universal		
					
Fanless		★★★★★	★★★★★	—	—
CPU (1)	Processor	Intel Atom N270 (1.6 GHz)	Intel Atom N2600 (1.6 GHz)		
	PCI slot	1 half-size mini PCIe	1 full-size mini PCIe		
	Storage	CFast card	CFast card	SSD(1)	—
	RAM	2 GB	4 GB		
Operating system		Windows Embedded Standard 2009	Windows 7 32-bit (WES 7 Premium)		—
Supply voltage		9...36 V ~	12...24 V ~		
Standards and certifications		☐ CE ☐ cULus ☐ EAC ☐ CCC ☐ RCM			
Software	Vijeo Designer and Vijeo XD RT Demo	☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ			
	Bundle (validated and supported)	—			
Compatible display models		Compatible with all screens of Magelis iDisplay range			
References		HMIBSOCND1E01	HMIBSUCND1W01	HMIBSUSND1W01	HMIBSU0ND1001
Pages		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .			

Type of Magelis iPC		Magelis HMDID iDisplay - remote monitors with DVI port	
			
Display	Type	12" color multi-touch resistive	
	Definition	XGA, 1024 × 768 pixels	
	Front protection	IP 65	
	Front USB port	1 USB 2.0 port	
Supply voltage		12...24 V ~	
Standards and certifications		☐ CE ☐ cULus ☐ EAC ☐ RCM ☐ KC ☐ ATEX/IECEX	
Marine certifications		☐ BV ☐ CCS ☐ DNV ☐ GL ☐ LR ☐ RINA ☐ ABS	
Compatibility		All PCs with video port	
Reference		HMDID64DTD1	
Page		Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	

(1) With 5-year Intel warranty and 2 million hours MTBF
(2) Require Vijeo Designer V6.2 SP2 or later to build and download HMI application.

Magelis HMIR Rack PC			
Rack PC 2U Optimized HMIR.O (3)		Rack PC 2U Universal HMIRSU (3)	Rack PC 4U Performance HMIRSP (3)
-			
Intel Core G540 (2.5 GHz)	Intel Core G850 (2.9 GHz)	Intel Core i3-2120 (3.3 GHz)	Intel Xeon™ Quad core E3-1225 (3.1 GHz)
2 PCIe (x8) + 1 PCI		2 PCIe (x16) + 1 PCI	Up to 7 slots: 4 PCIe (x16) + 3 PCI
No storage drive or 1 HDD	1 HDD	1 HDD or 1 SSD	1 HDD, 2 HDD RAID, or 1 SSD
2 GB DDR3		4 GB DDR3	4 GB DDR3, 8 GB ECC, or 16 GB DDR3
None or Windows 7	Windows 7	Windows 7	Windows 7, or Windows Server 2008 Standard R2, or Windows Server 2012 R2
110...240 V ~ (300 W single power supply)			110...240 V ~ (500 W single or redundant power supply)
☐ CE	☐ EAC	☐ RCM	
☐ cULus	☐ CCC		
☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2).			
☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ			
-		None or Vijeo Citect DVD for SCADA applications	None or Vijeo Citect DVD, or PES leaflet
Compatible with all screens of Magelis iDisplay range			
HMIRXOHA301	HMIRSOHPA3W01	HMIRSU03A3701	HMIRSP0X06000
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .			

Magelis HMDID iDisplay - remote monitors with DVI port	
	
15" color multi-touch resistive	
XGA, 1024 × 768 pixels	
IP 65	
1 USB 2.0 port	
12...24 V ~	
☐ CE	☐ RCM
☐ cULus	☐ KC
☐ EAC	☐ ATEX/IECEX
☐ BV	☐ GL ☐ ABS
☐ CCS	☐ LR
☐ DNV	☐ RINA
All PCs with video port	
HMDID73DTD1	
Please refer to Magelis Industrial PC and Display catalog on our website www.schneider-electric.com .	

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

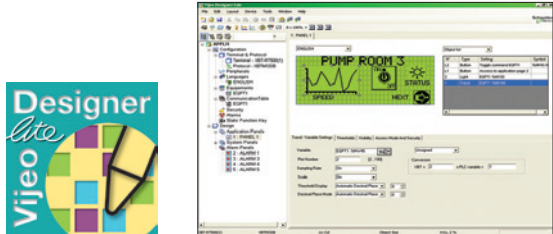
Human Machine Interfaces
HMI controllers
Magelis SCU

Applications		Display of text messages, graphic objects and mimics, control and configuration of data	
		IEC 1131-2 control function	
Terminal type		Small HMI controllers	
		For control of simple machine	
		 	
Display	Definition	65K colors	
	Type	3.5" color TFT LCD	5.7" color TFT LCD
Data entry		Via touch screen	
Memory capacity	Application	128 MB Flash EPROM	
	Expansion	—	
Functions	Maximum number of pages and maximum number of instructions	Limited by internal Flash EPROM memory capacity	
	Variables per page	Unlimited (8000 variables max.)	
	Programmed logic	5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)	
	Counting/positioning	2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train outputs	
	Control (PID)	Yes	
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light	
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.	
	Curves	Yes, with log	
	Alarm logs	Yes	
	Real-time clock	Built-in	
I/O	Integrated	☐ 14 x 24 V $\overline{\text{N}}$ digital inputs ☐ 2 high speed counter (HSC) inputs ☐ 8 digital relay outputs ☐ 2 pulse train source transistor outputs	
	I/O modular expansion	—	
Communication	Downloadable protocols	Modbus, Modbus TCP/IP (1)	
	Asynchronous serial link	RS-232C/RS-485 (COM1)	
	USB ports	1 Host type A + 1 Device type mini-B	
	Buses and networks	1 CANopen master	
		Ethernet TCP/IP (10BASE-T/100 BASE-TX)	
	Printer link	USB port for parallel printer	
Design software	SoMachine on Windows XP Professional and Windows 7 Professional 343647/64-bit (please refer to our website www.schneider-electric.com).		
Operating system	Magelis (333 MHz RISC CPU)		
References	HMISCU6A5		HMISCU8A5
Pages	Please refer to Magelis SCU catalog on our website www.schneider-electric.com .		

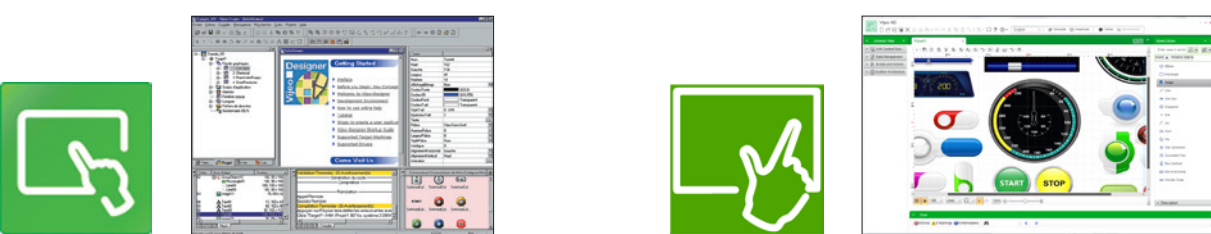
(1) Depending on model.

Display of text messages, graphic objects and mimics, control and configuration of data
IEC 1131-2 control function
Small HMI controllers
For control of simple process
 
65K colors
3.5" color TFT LCD5.7" color TFT LCD
Via touch screen
128 MB Flash EPROM
—
Limited by internal Flash EPROM memory capacity
Unlimited (8000 variables max.)
5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)
2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train outputs
Yes
Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light
32 groups of 64 recipes comprising 1024 ingredients max.
Yes, with log
Yes
Built-in
☐ 6 x 24 V $\overline{\text{N}}$ digital inputs ☐ 2 high speed counter (HSC) inputs ☐ 6 digital relay outputs ☐ 2 pulse train source transistor outputs ☐ 2 x 13-bit analog inputs (Voltage/current) ☐ 2 x 16-bit analogue temperature inputs (TC/PT100-1000) ☐ 2 x 12-bit analog outputs (Voltage/current)
—
Modbus, Modbus TCP/IP (1)
RS-232C/RS-485 (COM1)
1 Host type A + 1 Device type mini-B
1 CANopen master
Ethernet TCP/IP (10BASE-T/100 BASE-TX)
USB port for parallel printer
SoMachine on Windows XP Professional and Windows 7 Professional 343647/64-bit (please refer to our website www.schneider-electric.com).
Magelis (333 MHz RISC CPU)
HMISCU6B5
HMISCU8B5
Please refer to Magelis SCU catalog on our website www.schneider-electric.com .

Human Machine Interfaces
HMI configuration software for HMI terminals

Applications		Traditional architecture, HMI executed on PC platform or dedicated terminal Configuration software for operator dialogue applications	
			
Compatible products	Type	Magelis™ XBTN/R/RT Small panels (1)	
	Maximum number of targets	1	
	Operating system on terminals	Proprietary Magelis	
Functions	Reading/writing of PLC variables	Yes	
	Display of variables	Yes	
	Data processing	–	
	Sharing of variables between HMI applications	–	
	Saving of variables to external database	–	
Internationalization		–	
Development of graphic applications	Native library of graphic objects	Yes	
	Curves and alarms	Yes (2)	
	Scripts	–	
Communication between HMI application and PLCs		Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens)	
Uploading of applications		Yes	
Simulation of HMI applications		Yes	
Recipe management		–	
Report and barcode printing		–	
Screen capture		–	
Access security		Linked to user profiles	
Interface languages		Screens, online help and documentation in electronic format available in 6 languages: English, French, German, Italian, Simplified Chinese and Spanish	
OS compatibility		Windows XP Professional, Windows Vista Business (32-bit), Windows 2000 Professional	
References		Vijeo Designer™ Lite	
Pages		Please refer to Vijeo Designer catalog on our website www.schneider-electric.com .	

(1) All Magelis XBT and Magelis GTO/GTU terminals behave transparently on restoration of power.
(2) Depending on compatible product.

Traditional architecture, HMI executed on PC platform or dedicated terminal Configuration software for operator dialogue applications	
	
Magelis™ STO/STU Small panels Magelis™ XBTGT/GK/GH/GTU Advanced panels and Magelis™ GTU Universal panels (1) Magelis™ industrial PCs	Magelis STO color Magelis GTO Advanced panels and Magelis GTU Universal panels Magelis Industrial PCs
32	1
Proprietary for Magelis STO/STU, Magelis XBTGT/GK/GH and Magelis GTO/GTU Windows XP embedded for Magelis GTU	Proprietary for Magelis STO color, Magelis GTO/GTU Windows Embedded Standard 7 for Magelis Industrial PCs
Yes, up to 8000 internal and external variables	
Yes	
Yes, using expression editor or Java programming	Yes, using convertor or action editor
Up to 300 variables between 8 terminals, without router PLC Proprietary protocol above TCP/IP	–
Yes, with the Intelligent Data Service extension	–
Up to 15 languages supported by 34 western alphabets, 4 Asian alphabets and 2 middle eastern alphabets embedded in the application	Up to 32 languages supported by 34 type of fonts embedded in the application
Yes	
Yes, with log	
Java	–
Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens)	
Yes	–
Yes	
Yes, up to 32 groups, 1024 ingredients for 256 recipes per group, proprietary or CSV format, complete multilingual support for labels and ingredients	
On the fly alarms, log data. Up to 9999 active alarms, record or logs Main barcode types supported: UPC-A, UPC-E, JAN/EAN8, JAN/EAN13, ITF, CODE39, CODE93, CODE128, CODABAR (NW-7)	–
Yes, for Magelis XBTGT (XBTGT1105 and higher), Magelis GTO/GTU and Magelis industrial PCs. JPEG format	Yes, for Magelis GTU Open Box and Magelis industrial PCs. PNG format
Linked to user profiles	
Screens, online help and documentation in electronic format available in 8 languages: English, French, German, Italian, Brazilian Portuguese, Traditional Chinese, Simplified Chinese and Spanish	
Windows XP Professional, Windows 7 Business (32-bit and 64-bit)	Windows 7, 8.1, 10 (32-bit and 64-bit)
Vijeo Designer™	Vijeo XD™
Please refer to Vijeo Designer catalog on our website www.schneider-electric.com .	Please refer to Vijeo XD catalog on our website www.schneider-electric.com .

USB accessories (programmable with Vijeo Designer)

Monolithic USB tower lights



Description	■ 3 multi-color LEDs ■ clear lens ■ 2-tone buzzer (up to 85 dB at 1 m/3.28 ft distance) ■ pre-assembled USB cable for easy connection ■ USB cable clamp to help ensure firm connection	
Degree of protection	IP 54	
Dimensions	Ø 60 mm/2.36 in.	
Power consumption	2 W	
Product certifications	CE, UL, CSA, GOST, and RCM	
Type of mounting/cut-out	Mounting on support tube with fixing plate: 4x Ø 6 mm/0.24 in.	Direct mounting on horizontal support: 3x Ø 5 mm/0.20 in.
Connection	USB cable with type A female connector: ■ 300 mm/11.81 in. for tube mounting ■ 400 mm/15.75 in. for direct mounting	
Compatibility with Magelis	Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U (1)	
References	XVGU3SWV	XVGU3SHAV
Pages	Please refer to USB accessories for HMI terminal catalog on our website www.schneider-electric.com .	

(1) Except GT1000 series of Magelis XBTGT

Illuminated USB switch

USB keyboard

Biometric USB switch



■ 5 customizable soft/static function keys ■ multi-color LED backlight or alarm acknowledgment	■ USB keyboard with 12 keys and integrated LEDs that can be used as user customizable function keys or alphanumeric input keys	■ Manages access to HMI data via USB port ■ Levels of authorization through fingerprint recognition ■ Traceability of users and operations ■ Database management from PC
IP 65	IP 65	IP 65
80 x 97.6 x 31.5 mm/3.15 x 3.84 x 1.24 in. (H x W x D)	54 x 122 x 28 mm/2.13 x 4.80 x 0.08 in. (H x W x D)	54 x 69.3 x 38.8 mm/2.13 x 2.73 x 1.53 in. (H x W x D)
2 W or less	0.75 W or less	1.6 W max.
UL, CSA, CE and GOST	CSA, GOST-R, KCC, CE and UL	UL, CSA, GOST, and CE
Mounted on flat surface: M22	Mounted on flat surface: M22	Mounted on flat surface/vertical surface: M22
USB mini-B cable	USB type B cable	USB cable (1 m/3.28 ft) with type A male connector cable
Magelis Panel PC/Box PC, Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U/G5U (1)	Magelis HMI GTO/GXO/STO/STU/SCU/G3U	Magelis Panel PC/Box PC, Magelis XBT GT/GC, HMI GK/GTO/GXO/STU/SCU/G3U/G5U (1)
HMIZRA1	HMIZKB1	XB5S5B2L2
Please refer to USB accessories for HMI terminal catalog on our website www.schneider-electric.com .		

<http://www.roc-electric.com/>

Human Machine Interface



Schneider Electric Industries SAS

www.schneider-electric.com/hmi

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