



Industrial Automation - Products & Configurations

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Basic Configuration		LCD TFT 10,4" • Touch-Screen • Intel® Atom™ dual core D2550 1,86 GHz • 1GB RAM • Aluminum front panel • fanless • with additional monitor VGA output • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • 12 months warranty				29
HT2000/S1 BASIC SYSTEM						POWER [W]
Basic configuration		LCD TFT 10,4" • Touch-Screen • Intel® Atom™ dual core D2550 1,86 GHz • 1GB RAM • Aluminum front panel • fanless • with additional monitor VGA output • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • 1 PCI slot • 12 months warranty				33
REMOTE ASSISTANCE	S0	S1				↓
	•	•	ASEM UBIQUITY BASIC Win32 runtime			-
PROCESSOR	•	•	Intel® Atom™ dual core D2550 • 1,86 GHz, 1MB L2 cache • Intel® Hyper-Threading • Soldered on-board			↓
	•	•				↓
DISPLAY	•	•	10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85°			- 1
	•	•	10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight , 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/70°:70°			
	•	•	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60°			+ 5
	•	•	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 600 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/70°:70°			+ 10
	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70°			+ 9
	•	•	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°			+ 8
	•	•	17" LCD TFT 5:4 • SXGA, 1280x1024, 16M colors • LED backlight, 350 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°			+ 22
	•	•	18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/70°:70°			+ 18
	•	•	19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°			+ 33
	•	•	21,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L+R/U+L (typ): 89°:89°/89°:89°			+ 28
TOUCH-SCREEN			GFG > note 1			↓
	•	•	No Touch-Screen	-	+ 0	
	•	•	10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	no	+ 0	
	•	•	10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	no		
	•	•	12,1" Touch-Screen • 5 wires resistive technology • Controller integrated on board	yes	+ 0	
	•	•	15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	yes	+ 0	
	•	•	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board	no	+ 0	
	•	•	17" Touch-Screen 5:4 • 5 wires resistive technology • Controller integrated on board	yes	+ 0	
	•	•	18,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board	no	+ 0	
	•	•	19" Touch-Screen 5:4 • 5 wires resistive technology • Controller integrated on board	no	+ 0	
RAM MEMORY	•	•	1 GB • 1 module SODIMM DDR3-1600			
	•	•	2 GB • 1 module SODIMM DDR3-1600			+ 1
	•	•	4 GB • 1 module SODIMM DDR3-1600			+ 2
INTERNAL PSU	•	•	Without UPS (uninterruptible power supply)			
	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 2			+ 1
ADDITIONAL MONITOR OUTPUT	•	•	VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA			
	•	•	DVI-I (Single Link) video interface for additional external monitor • Max resolution 2048x1536 SXGA			+ 0
EXPANSION SLOTS	•	•	No expansion slots			
	•	•	1 x PCI half size • on riser card • expansion board with max consumption 3W			
	•	•	1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size • on riser card • expansion board with max consumption 3W			+ 0
OPTIONS						POWER [W]
SSD 2,5"	S0	S1				↓
	•	•	SSD 2,5" SATA installation kit (SSD not included)			-
	•	•	SSD 2,5" SATA installation kit (SSD not included) SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC			- 5
HDD 2,5"	•	•	HDD 2,5" SATA installation kit (HDD not included) • with shock absorber			-
	•	•	HDD 2,5" SATA installation kit (HDD not included) • with shock absorber			-
	•	•	HDD 2,5" SATA			6
CFAST	•	•	CFAST SATA			1
COMMUNICATION PORTS	•	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 3			1
	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 3			1
	•	•	2 x RS232 serial ports (DB9M) > note 3			2
	•	•	2 x USB 2.0 ports > note 3			0
USP BATTERIES KIT	•	•	Batteries kit for rear systems mounting • cable included			15
	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included			15
I/O BOARDS	•	•	8+8 channels DIN/DOOUT optoisolated MiniPCI board > note 4			3
FIELDBUS	•	•	NETcore® X MiniAPCI fieldbus module • For technical details and supported drivers see related page > note 4			3
WARRANTY EXTENSION	•	•	Warranty extension to 18 months on basic system and its variants			
	•	•	Warranty extension to 24 months on basic system and its variants			
	•	•	Warranty extension to 36 months on basic system and its variants			

NOTES

For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.

- 1: Glass Film Glass (GFG) touch-screen option: see pg.216 for the differences with standard touch-screen configuration
- 2: UPS module is supported by Microsoft Win32/64 operating systems
- 3: Communication ports cannot be installed together
- 4: Boards with MiniPCI / MiniAPCI bus cannot be installed together. For technical details and supported drivers see pg.218 or pg.223



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front panel	Aluminum • ASEM logo sticker
Touchscreen	5 wires resistive technology • on board controller
Frontal protection	IP66
Power supply	Isolated • Input voltage: 18÷32V DC
UPS (optional)	12V DC UPS (Uninterruptible Power Supply) battery backup system Batteries module (optional): Pb, 12V/13A max, 2500mA/h • Charge time 3h@25°C • Discharge time 15'@5A and 25°C • Lifetime 10years@25°C
Motherboard	"All-In-One" type • ASEM 953
Watch dog	Time programmable
Intel platform	Processor Intel® Atom™ dual core D2550 (1,86GHz) Chipset Intel® NM10
Operating System	Microsoft Windows 7 Pro/Ultimate 32bit • Windows XP Pro 32bit • O.S. certified by ASEM Microsoft Windows Embedded Standard 7E/7P 32 bit • Windows Embedded Standard 2009 (XPe SP3) 32bit • Windows XPe SP2 • Microsoft Windows Embedded Compact 7 Pro Other operating systems, such as Linux, VxWorks, QNX, etc., have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility
	O.S. not supported by Intel platform Microsoft Win64 • Microsoft Windows 8 / 2000 / 98 / NT • Microsoft Windows CE 5 / 6
Software	Remote assistance ASEM UBIQUITY BASIC Win32 runtime license with ASEM sticker
Video controller	Integrated in Intel® Atom™ microprocessor • 640MHz • LVDS 8bit/color digital interface
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory	DDR3-1066 type • 1 SODIMM module • min 1GB • max 4GB
Mass storage interfaces	1 x SATA 2 • 3Gb/s integrato on board
CFast slot	1 x slot CFast (bootable) external access
Bus expansions slots	on board (SO, S1) 2 x MiniPCI on riser card (S1) 1 x PCI or 1 x PCIe x1 • half size boards with 3W max consumption • alternative to each other
Frontal access interfaces	1 x USB 2.0
Rear access interfaces	2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® 82574L • 4 x USB 2.0 (Type A) • 1 x PS/2 K/M • 1 x VGA/DVI-I video output (2048x1536 SXGA max resolution)
Rear access serial interfaces	1 x RS-232 (DB9M)
Environmental specifications	Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C with 24x7 HDD, +5°C ÷ +45°C with standard HDD • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL508)
Standard warranty	12 months • Warranty management by ASEM headquarters

