



## Industrial Automation - Products & Configurations

HT2000-TFX/S0 BASIC SYSTEM			POWER [W]
Basic Configuration	LCD TFT 12,1" SVGA • Touch-Screen • Stainless Steel TrueFlat front panel • Intel® Atom™ dual core D2550 1,86 GHz • 2GB RAM • fanless • with additional monitor VGA output • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty		35

HT2000-TFX/S1 BASIC SYSTEM			POWER [W]
Basic Configuration	LCD TFT 12,1" SVGA • Touch-Screen • Stainless Steel TrueFlat front panel • Intel® Atom™ dual core D2550 1,86 GHz • 2GB RAM • fanless • with additional monitor VGA output • 24V DC isolated power supply • 1 PCI slot • UBIQUITY BASIC Win32/64 runtime • 12 months warranty		39

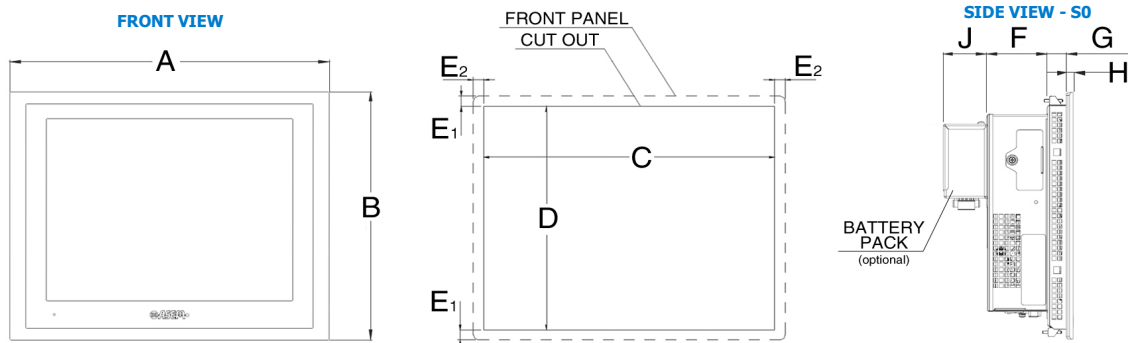
	S0	S1		
REMOTE ASSISTANCE	•	•	ASEM UBIQUITY BASIC Win32/64 runtime	-
PROCESSOR	•	•	Intel® Atom™ dual core D2550 • 1,86 GHz, 1MB L2 cache • Intel® Hyper-Threading • Soldered on-board	
DISPLAY & TOUCH-SCREEN	•	•	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° Touch-Screen • 5 wires resistive technology • Controller integrated on board	
	•	•	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° Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 5
	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 4
	•	•	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° Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 17
	•	•	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° Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 28
RAM MEMORY	•	•	1 GB • 1 module SODIMM DDR3-1600	- 1
	•	•	2 GB • 1 module SODIMM DDR3-1600	
	•	•	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 > <b>note 1</b>	+ 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"	•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	SSD 2,5" SATA	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	1
COMMUNICATION PORTS	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > <b>note 2</b>	1
	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > <b>note 2</b>	1
	•	2 x RS232 serial ports (DB9M) > <b>note 2</b>	2
	•	2 x USB 2.0 ports > <b>note 2</b>	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/DOUT optoisolated MiniPCI board > <b>note 3</b>	3
FIELDBUS	•	NETcore® X MiniPCI fieldbus module • For technical details and supported drivers see related page > <b>note 3</b>	3
WARRANTY EXTENSION	•	Warranty extension to 18 month	
	•	Warranty extension to 24 months	
	•	Warranty extension to 36 months	

NOTES	
The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.	
<b>1:</b> UPS module is supported by Microsoft Win32/64 operating systems	
<b>2:</b> Communication ports cannot be installed together	
<b>3:</b> Boards with MiniPCI / MiniAPCI bus cannot be installed together. For technical details and supported drivers see pg.321 or pg.325	

TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front panel	TrueFlat stainless steel AISI 304 (UNI/EN 1.4301), medium surface brushing, grain 180 • Polyester Autoflex EB A180, RAL 7035 color • ASEM logo serigraph printed
Touchscreen	5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive) • 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, 2500mAh • 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
O.S. not supported by Intel platform	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
Software	Remote assistance ASEM UBIQUITY BASIC Win32/64 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 II • 3Gb/s integrato on board
CFast slot	1 x slot CFast (bootable) external access
Bus expansions slots	on board (S0, 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
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

## DIMENSIONS (mm)



LCD TFT	A	B	C	D	E <sub>1</sub> /E <sub>2</sub>	F (S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10/10	57 / 83	19	6	41,8	tbd
15"	398	315	370	295	10/14	57 / 83	19	6	41,8	tbd
17"	455	355	435	335	10/10	57 / 83	21	6	41,8	tbd
19"	490	388	470	368	10/10	57 / 83	23	6	41,8	tbd

## CONNECTORS VIEW

