



Industrial Automation - Products & Configurations

HT3000-TFX/S0 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" • Touch-Screen • Intel® Celeron™ dual core 1047UE 1,40 GHz • 2GB RAM • Stainless Steel TrueFlat front panel • fanless • VGA video output for additional external monitor • isolated 24V DC power supply • 2 MiniPCI slots • 12 months warranty	48

HT3000-TFX/S1 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" • Touch-Screen • Intel® Celeron™ dual core 1047UE 1,40 GHz • 2GB RAM • Stainless Steel TrueFlat front panel • fanless • VGA video output for additional external monitor • isolated 24V DC power supply • 2 MiniPCI slots, 1 PCI slot • 12 months warranty	52

	S0	S1		POWER [W]
PROCESSOR	•	•	Intel® Celeron™ dual core 1047UE • 1,40 GHz • 2MB smart cache • 2 cores, 2 threads • Soldered on-board	
	•	•	Intel® Celeron™ dual core 1020E • 2,20 GHz • 2MB smart cache • 2 cores, 2 threads • Soldered on-board	+ 24
	•	•	Intel® Core™ i3-3120ME • 2,40 GHz • 3MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 24
	•	•	Intel® Core™ i5-3610ME • 2,70 GHz • 3MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 33
	•	•	Intel® Core™ i7-3612QE • 2,10 GHz • 6MB smart cache • 4 cores, 8 threads • Soldered on-board	+ 37
DISPLAY	•	•	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° 12,1" Touch-Screen • 5 wires resistive technology • Controller integrated on board	
	•	•	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 12,1" Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 5
	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° 15" Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 8
	•	•	17" LCD TFT 5:4 • SXGA, 1280x1024, 16M colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/80°:80° 17" Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 17
	•	•	19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ.): 89°:89°/89°:89° 19" Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 28
	RAM MEMORY	•	•	2 GB • 1 module SODIMM DDR3-1600
•		•	4 GB • 1 module SODIMM DDR3-1600	+ 1
•		•	8 GB • 1 module SODIMM DDR3-1600	+ 2
•		•	16 GB • 2 x 8 GB modules SODIMM DDR3-1600	+ 4
INTERNAL PSU	•	•	Without UPS (uninterruptible power supply)	
	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1	+ 1
EXTERNAL MONITOR OUTPUT	•	•	VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA	
	•	•	DVI-I (Dual 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 4x format (Generation 2) half size • on riser card • expansion board with max consumption 3W	+ 0

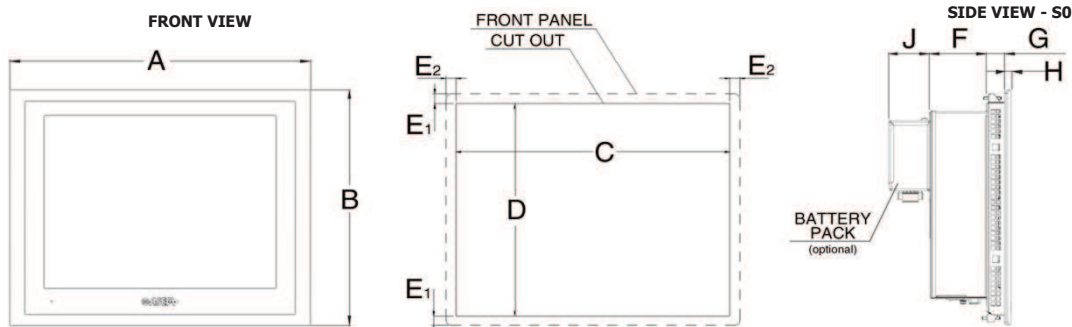
OPTIONS				POWER [W]
TPM	•	•	TPM (Trusted Platform Module)	0
SSD mSATA	•	•	SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC	2
SSD 2,5"	•	•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	•	SSD 2,5" U/X110 SATA 3, 6Gb/s (Solid State Disk), MLC	5
HDD 2,5"	•	•	HDD 2,5" SATA installation kit (HDD not included) • with shock absorber	-
	•	•	HDD 2,5" SATA	6
CFAST	•	•	CFAST SATA	1
COMMUNICATION PORTS	•	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 2	1
	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 2	1
	•	•	2 x RS232 serial ports (DB9M) > note 2	2
	•	•	2 x USB 2.0 ports > note 2	0
	•	•	1 x Ethernet 10/100/1000Mbps, Intel® 82574L > note 2	1
POWER SUPPLY	•	•	Unmanaged Ethernet switch 4 x 10/100/1000Mbps > note 2	4
	•	•	Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command.	0
UPS BATTERIES KIT	•	•	Batteries kit for rear systems mounting • cable included	15
	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included	15
FIELDBUS	•	•	NETcore® X MiniPCI fieldbus module • For technical details and supported drivers see related page > note 3	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	
1:	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.
2:	UPS functionalities are ensured with Microsoft Win32/64bits operating systems only
3:	Communication ports cannot be installed together
3:	Boards with MiniPCI / MiniAPCI bus cannot be installed together. For technical details and supported drivers see pg.212 or pg.217



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front panel	TrueFlat stainless steel 1.4301 surface brushing grain 180 medium • 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 • ATX mode push button (optional)
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 5'@ 10A and 25°C • Lifetime 10years@25°C
Motherboard	Type
	Watch dog
Intel platform	Processor
	Chipset
Operating System	O.S. certified by ASEM
	O.S. not supported by Intel platform
Video controller	Intel® HD Graphics integrated in Intel® Celeron™ microprocessor • 650MHz • LVDS 8bit/color digital interface Intel® HD Graphics 4000 integrated in Intel® Core™ microprocessor • 650MHz • LVDS 8bit/color digital interface
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory	DDR3-1600 type • 2 SODIMM modules • min 2GB • max 16GB
Mass storage interfaces	1 x SATA 3, 6Gb/s • 1 x mSATA 2, 3Gb/s • integrated on board
TPM	2x10 (2,54) pin-strip connector for optional TPM module
CFlash slot	1 x slot CFlash (bootable) external access
Bus expansions slots	on board (S0, S1)
	on riser card (S1)
Rear access interfaces	3 x Ethernet 10/100/1000 Mbps (RJ45 - 2 x Intel® 82574L, 1 x Intel® 82579LM) • 2 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x PS/2 K/M • VGA or DVI-I output video (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 ₁ /E ₂	F (S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10/10	70/100	19	5	41,8	tbd
15"	398	315	370	295	10/14	70/100	19	6	41,8	tbd
17"	455	355	435	335	10/10	70/100	21	6	41,8	tbd
19"	490	388	470	368	10/10	70/100	23	6	41,8	tbd

NOTE: for systems with Celeron 1047UE processor the dimension F is 60mm (S0) or 90mm (S1)

CONNECTORS VIEW

