



Industrial Automation - Products & Configurations

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

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	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 & TOUCH-SCREEN	• •	• •	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°	+ 5	
	• •	• •	12,1" Touch-Screen • 5 wires resistive technology • Controller integrated on board		
	• •	• •	12,1" W LCD TFT 16:10 • WXVGA, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 88°:88°/88°:88°	+ 1	
	• •	• •	12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board		
	• •	• •	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°	+ 8	
	• •	• •	15" Touch-Screen • 5 wires resistive technology • Controller integrated on board		
	• •	• •	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°	+ 3	
	• •	• •	15,6" W Touch-Screen • 5 wires resistive technology • Controller integrated on board		
	• •	• •	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	
	• •	• •	17" Touch-Screen • 5 wires resistive technology • Controller integrated on board		
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	

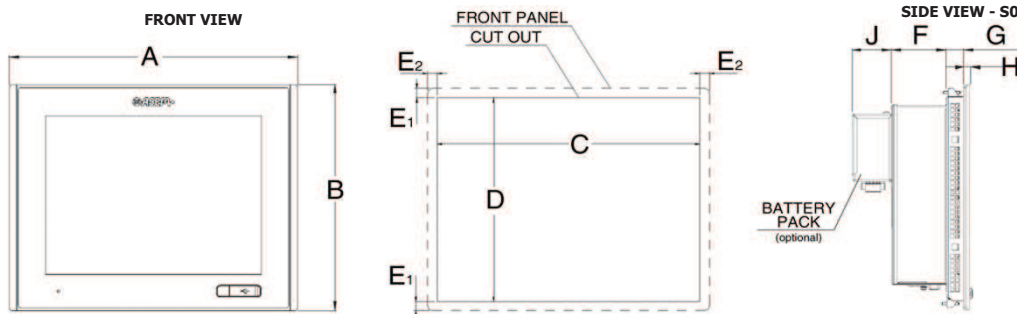
OPTIONS		POWER [W]	
TPM	• •	TPM (Trusted Platform Module)	0
SSD mSATA	• •	SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC	2
SSD 2,5"	• •	SSD 2,5" SATA installation kit (SSD not included)	-
	• •	SSD 2,5" U/X110 SATA 3, 6Gb/s (Solid State Disk), MLC	5
HDD 2,5"	• •	HDD 2,5" SATA installation 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
	• •	Unmanaged Ethernet switch 4 x 10/100/1000Mbps > note 2	4
POWER SUPPLY	• •	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 MiniAPCI 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	Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen	5 wires resistive technology • on board controller
Frontal protection	IP66
Power supply	Isolated • Input voltage: 18÷32V DC • ATX mode push button (optional)
Motherboard	Type: "All-In-One" ASEM 1151 Watch dog: Time programmable
Intel platform	Processor: Intel® Celeron™ dual core 17/35W • Intel® Ivy Bridge™ third generation 35W Chipset: Intel® HM76 Express Chipset
Operating System	Microsoft Windows 8.1 Industry Pro 32/64bit • Windows 7 Pro/Ultimate 32/64bit • Windows XP Pro 32bit • Windows Embedded Standard 7E/7P 32/64 bit • Windows Embedded Standard 2009 (XPe SP3) 32bit O.S. certified by ASEM: 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 Windows 2000 / 98 / NT • Microsoft Windows CE 5 / 6
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
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 4x PCIe x1 • half size boards with 3W max consumption • alternative to each other
Frontal access interfaces	1 x USB 2.0
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° ÷ +45°C with 24x7 HDD or LCD 24", +5° ÷ +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	F (S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10	70/100	19	5	41,8	tbd
12,1" W	331	234	313	216	9	70/100	21	5	41,8	tbd
15"	390	315	370	295	10	70/100	19	6	41,8	tbd
15,6"	430	275	410	255	10	70/100	19	6	41,8	tbd
17"	455	355	435	335	10	70/100	21	6	41,8	tbd
18,5"	500	320	480	300	10	70/100	21	6	41,8	tbd
19"	490	388	470	368	10	70/100	23	6	41,8	tbd
21,5"	579	367	559	347	10	70/100	23	6	41,8	tbd
24"	640	402	620	382	10	70/100	21,3	8	41,8	tbd

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

CONNECTORS VIEW

