



HT3000-TFM

fanless

Industrial Automation - Products & Configurations

HT3000-TFM/S0 BASIC SYSTEM			POWER [W]
Basic Configuration	LCD TFT 12,1" W • Touch-Screen Multitouch • Aluminum and glass TrueFlat front panel • Intel® Celeron™ dual core 1047UE 1,40 GHz • 2GB RAM • fanless • VGA video output for additional external monitor • 24V DC isolated power supply • 2 MiniPCI slots • UBIQUITY BASIC Win32/64 runtime • 12 months warranty		49

HT3000-TFM/S1 BASIC SYSTEM			POWER [W]
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REMOTE ASSISTANCE	S0 S1	ASEM UBIQUITY BASIC Win32/64 runtime	-
PROCESSOR		Intel® Celeron™ dual core 1047UE • 1,40 GHz • 2MB smart cache • 2 cores, 2 threads • Soldered on-board	+ 24
		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	+ 33
		Intel® Core™ i5-3610ME • 2,70 GHz • 3MB smart cache • 2 cores, 4 threads • Soldered on-board	+ 37
		Intel® Core™ i7-3612QE • 2,10 GHz • 6MB smart cache • 4 cores, 8 threads • Soldered on-board	
DISPLAY & TOUCH-SCREEN		12,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 88°:88°/88°:88° Touch-Screen P-CAP projected capacitive multitouch	+ 1
		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° Touch-Screen P-CAP projected capacitive multitouch	+ 10
		15,6" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85° Touch-Screen P-CAP projected capacitive multitouch	+ 11
		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° Touch-Screen P-CAP projected capacitive multitouch	+ 23
		18,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85° Touch-Screen P-CAP projected capacitive multitouch	+ 22
		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° Touch-Screen P-CAP projected capacitive multitouch	+ 26
		24" 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° Touch-Screen P-CAP projected capacitive multitouch	
RAM MEMORY		2 GB • 1 module SODIMM DDR3-1600	+ 1
		4 GB • 1 module SODIMM DDR3-1600	+ 2
		8 GB • 1 module SODIMM DDR3-1600	+ 4
		16 GB • 2 x 8 GB modules SODIMM DDR3-1600	
INTERNAL PSU		Without UPS (uninterruptible power supply)	+ 1
		With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1	
EXTERNAL MONITOR OUTPUT		VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA	+ 0
		DVI-I (Single Link) video interface for additional external monitor • Max resolution 2048x1536 SXGA	
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

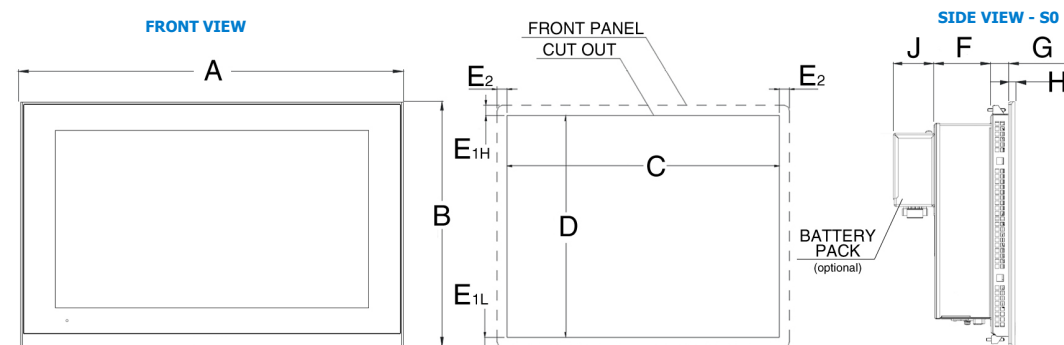
OPTIONS			POWER [W]
TPM	S0 S1	TPM (Trusted Platform Module)	0
SSD mSATA		SSD on mSATA connector onboard, SATA	2
SSD 2,5"		SSD 2,5" SATA installation kit (SSD not included)	-
		SSD 2,5" U/X110 SATA III 6Gb/s (Solid State Disk), MLC	5
HDD 2,5"		HDD 2,5" SATA installation kit (HDD not included) • with shock 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 BATTERY KIT		Batteries kit for rear systems mounting • cable included	15
		Batteries kit for detached mounting (wall mount) • 100cm cable included	15
FIELD BUS		NETcore® X MiniPCI fieldbus module • For technical details and supported drivers see related page > note 3	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.	
1: UPS functionalities are ensured with Microsoft Win32/64bits operating systems only	
2: Communication ports cannot be installed together	
3: 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	Aluminum and tempered glass TrueFlat
Touchscreen	Projective capacitive multitouch
Frontal protection	IP66
Power supply	24 V DC 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'@ 13A and 25°C • Lifetime 10years@25°C
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 10 IoT Enterprise 2016 64bit • Microsoft Windows 8.1 Industry Pro 32/64bit • Windows 7 Pro/Ultimate 32/64bit • Windows XP Pro 32bit • Windows Embedded Standard 7P 32/64 bit • Windows Embedded Standard 2009 (XPe SP3) 32bit 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 III 6Gb/s • 1 x mSATA II 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 slot/son 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
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:
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 _{1L} •E _{1H} /E ₂	F (S0/S1)	G	H	J	Weight (kg)
12,1" W	331	234	313	218	7:9/9	70/100	22	5	41,8	tbd
15,6"	433	280,5	410	255	15:10,5/11,5	70/100	36	6	41,8	tbd
18,5"	503	320,5	480	300	10:10,5/11,5	70/100	35	6	41,8	tbd
21,5"	581,5	367,5	559	347	10:10,5/11,5	70/100	35	8	41,8	tbd
24"	640	402	620	382	10/10	70/100	21	8	41,8	tbd

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

CONNECTORS VIEW

