



Panel X86 based

## HT3000 fanless

**Industrial Automation - Products & Configurations** HT3000/S0 BASIC SYSTEM

HT3000/S0 BASIC SYSTEM					POWER [W]		
Basic C	onfiguration	LCD TFT 12,1" • Touch-Screen • Intel® Celeron™ dual core 1047UE 1,40 GHz • 2GB RAM • Aluminum front panel •			48		
fanless • VGA video output for additional external monitor • isolated 24V DC power supply • 2 MiniPCI slots • 12 months warranty							
		LITZOGO (C1 PACTC CVCTEM			PO1188 010		
HT3000/S1 BASIC SYSTEM POWER [V							
Basic configuration  LCD TFT 12,1" • Touch-Screen • Intel® Celeron™ dual core 1047UE 1,40 GHz • 2GB RAM • Aluminum front panel • fanless • VGA video output for additional external monitor • isolated 24V DC power supply • 2 MiniPCI slots, 1 PCI slot •1				,	52		
	S0 S1	tailess - von vaco dapat or additional external montor - isolated 21v be power supply - 21 million external montor - isolated 21v be power supply - iso	2 moners warrancy	Ψ			
PROCESSOR	• •	Intel® Celeron™ dual core 1047UE • 1,40 GHz • 2MB smart cache • 2 cores, 2 threads • Soldered on-board		Ť			
		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		
				Ψ			
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" 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" 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		
	• •	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		
	• •	15,6" 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		
	• •	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		
	• •	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°			+ 13		
	• •	9" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89° 89°			+ 28		
	• •	21,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 89°:89°/89°:89°			+ 23		
	• •	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°		¥	+ 27		
	• •	No Touch-Screen	GFG > note 1	~			
	• •	12,1" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	yes		+ 0		
	• •	12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	no		+ 0		
		15" Touch-Screen • 5 wires resistive technology • Controller integrated on board	ves		+ 0		
		15,6" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	no		+ 0		
TOUCH-SCREEN		17" Touch-Screen • 5 wires resistive technology • Controller integrated on board	ves		+ 0		
		18,5" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	no		+ 0		
		19" Touch-Screen • 5 wires resistive technology • Controller integrated on board	no		+ 0		
	• •	21,5" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	no		+ 0		
	• •	24" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	no		+ 0		
				Ψ			
	• •	2 GB • 1 module SODIMM DDR3-1600					
RAM MEMORY	• •	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		
				Ψ.			
INTERNAL PSU	• •	Without UPS (uninterruptible power supply)					
	• •	● With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 2		¥	+ 1		
		VGA (DB15F) video interface for additional external monitor • Max resolution 2048x1536 SXGA					
EXTERNAL MONITOR OUTPUT	• •	DVI-I (Dual Link) video interface for additional external monitor • Max resolution 2048x1536 SXGA	-		+ 0		
		271 1 (Budi Ellik) Noco ilicendec foi additional external monitor - Plax resolution 20 tox1550 5/604		Ψ			
	•	No expansion slots					
EXPANSION SLOTS	•	x PCI half size • on riser card • expansion board with max consumption 3W					
SLOIS	•	1 x PCIe 4x format (Generation 2) half size • on riser card • expansion board with max consumption 3W			+ 0		
		OPTIONS			POWER [W]		
	S0 S1			Ψ			
ТРМ	• •	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)			-		
2/3	• •	SSD 2,5" U/X110 SATA 3, 6Gb/s (Solid State Disk), MLC			5		
HDD 2,5"	• •	TIBE 2/3 STATE INCIDENCE (TIBE THE INCIDENCE)		П	-		
	• •	HDD 2,5" SATA			6		
CFAST	• •	CFast SATA			1		
	• •	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > <b>note 3</b> 1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > <b>note 3</b>		H	1 1		
COMMUNICATION	• •	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > <b>note 3</b> 2 x RS232 serial ports (DB9M) > <b>note 3</b>		$\vdash$	2		
PORTS	• •	2 x USB 2.0 ports > <b>note 3</b>			0		
	• •	1 x Ethernet 10/100/1000Mpbs, Intel® 82574L > <b>note 3</b>		$\Box$	1		
		Unmanaged Ethernet switch 4 x 10/100/1000Mbps > <b>note 3</b>			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  Ratteries kit for detached mounting (wall mount) • 100cm 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 > <b>note 4</b>		¥	3		
	• •	Warranty extension to 18 months on basic system and its variants		1			
WARRANTY EXTENSION	• •	Warranty extension to 24 months on basic system and its variants  Warranty extension to 24 months on basic system and its variants					
LATERISION	• •	Warranty extension to 36 months on basic system and its variants					

For power consumption calculation we reccomend 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.210 for the differences with standard touch-screen configuration

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TECHNICAL SPECIFICATIONS						
Case		Panel mount				
Overall dimensions & we	ight	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 • 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	Туре	"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	O.S. certified by ASEN	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.O. Certified by AGEIN	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 1 x PCIe 4x • 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 (R345 - 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 interfa	ces	1 x RS-232 (DB9M)				
Environmental specificati	ons	Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C with 24x7 HDD or LCD 24", +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				

