



Industrial Automation - Products & Configurations

HT3000/S0 BASIC SYSTEM	
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 • 12 months warranty

HT3000/S1 BASIC SYSTEM	
Basic configuration	LCD TFT 10,4" • 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 • 12 months warranty

	S0	S1		
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	
	•	•	Intel® Core™ i3-3120ME • 2,40 GHz • 3MB smart cache • 2 cores, 4 threads • Soldered on-board	
	•	•	Intel® Core™ i5-3610ME • 2,70 GHz • 3MB smart cache • 2 cores, 4 threads • Soldered on-board	
	•	•	Intel® Core™ i7-3612QE • 2,10 GHz • 6MB smart cache • 4 cores, 8 threads • Soldered on-board	
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°	
	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle: L:R/U:L (typ): 80°:80°/70°:70°	
	•	•	15,6" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°	
	•	•	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°	
	•	•	18,5" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 170°/160°	
	•	•	19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°	
	•	•	21,5" LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L+R/U+L (typ): 178°/178°	
TOUCH-SCREEN	•	•	No Touch-Screen	GFG > note 1
	•	•	12,1" Touch-Screen • 5 wires resistive technology • Controller integrated on board	yes
	•	•	15" Touch-Screen • 5 wires resistive technology • Controller integrated on board	yes
	•	•	15,6" Touch-Screen • 5 wires resistive technology • Controller integrated on board	no
	•	•	17" Touch-Screen • 5 wires resistive technology • Controller integrated on board	yes
	•	•	18,5" Touch-Screen • 5 wires resistive technology • Controller integrated on board	no
	•	•	19" Touch-Screen • 5 wires resistive technology • Controller integrated on board	no
	•	•	21,5" Touch-Screen • 5 wires resistive technology • Controller integrated on board	no
RAM MEMORY	•	•	2 GB • 1 module SODIMM DDR3	
	•	•	4 GB • 1 module SODIMM DDR3	
	•	•	8 GB • 1 module SODIMM DDR3	
	•	•	16 GB • 2 modules SODIMM DDR3	
INTERNAL PSU	•	•	Without UPS (uninterruptible power supply)	
	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 2	
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	
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	

OPTIONS				
	S0	S1		
SSD mSATA	•	•	16 GB SSD 2,5" mSATA (U110), SATA 3, 6Gb/s (Solid State Disk), MLC	
	•	•	32 GB SSD 2,5" mSATA (U110), SATA 3, 6Gb/s (Solid State Disk), MLC	
	•	•	64 GB SSD 2,5" mSATA (X110), SATA 3, 6Gb/s (Solid State Disk), MLC	
SSD	•	•	SSD 2,5" SATA installation kit (SSD not included)	
	•	•	SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC	
HDD	•	•	HDD 2,5" SATA installation kit (HDD not included) • with shock absorber	
	•	•	HDD 250GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer • 24x7	
	•	•	HDD 320GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer	
	•	•	HDD 500GB 2,5" • SATA 2, 3Gb/s • 5400rpm, 8 MB buffer	
CFast	•	•	CFast SATA 2	
COMMUNICATION PORTS	•	•	1 x RS232/422/485 (DB15M) • 1 x USB 2.0 > note 3	
	•	•	1 x RS232/422/485 (DB15M) optoisolated • 1 x USB 2.0 > note 3	
UPS BATTERIES KIT	•	•	Batteries kit for rear systems mounting • cables included	
	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included	
POWER SUPPLY	•	•	External DIN-guide power supply • Input Voltage 230V AC • Output Voltage 24V DC • Nominal power 60W	
FIELD BUS	•	•	NETcore® X MiniPCI fieldbus module • For technical details and supported drivers see pg.171 > note 4	
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	

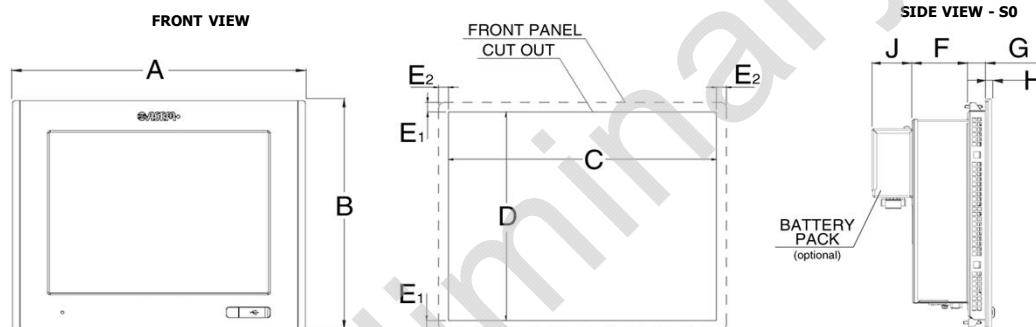
NOTES

- 1: Glass Film Glass (GFG) touch-screen option: see pg.166 for the differences with standard touch-screen configuration
- 2: UPS functionalities are ensured with Microsoft Win32/64bits operating systems only
- 3: Options can not be installed together
- 4: Boards with MiniPCI / MiniAPCI bus can not be installed together



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	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
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 Pro/Ultimate 32/64bit • Windows 7 Pro/Ultimate 32/64bit • Windows XP Pro 32bit • Microsoft Windows Embedded Standard 7E/7P 32/64 bit • Windows Embedded Standard 2009 (XPe SP3) 32/64bit 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 III, 6Gb/s • 1 x mSATA II, 3Gb/s • integrated on board
CFlash slot	1 x slot CFlash (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 (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 also 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 (508) pending
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
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	21	6	41,8	tbd
21,5"	579	367	559	347	10	70/100	23	6	41,8	tbd

CONNECTORS VIEW

