



Industrial Automation - Products & Configurations

HT2200-TF/SL BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic Configuration	LCD TFT 10,4" • Touch-Screen • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • without possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	26

HT2200-TF/S0 BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic Configuration	LCD TFT 10,4" • Touch-Screen • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	26

HT2200-TF/S0 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition		POWER [W]
Basic Configuration	LCD TFT 10,4" • Touch-Screen • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 12 months warranty	26

HT2200-TF/S1 BASIC SYSTEM fanless - with mSATA SSD predisposition		POWER [W]
Basic configuration	LCD TFT 10,4" • Touch-Screen • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty	30

HT2200-TF/S1 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition		POWER [W]
Basic configuration	LCD TFT 10,4" • Touch-Screen • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty	30

PROCESSOR	SL	S0	S1		POWER [W]
	•	•	•	Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board	

DISPLAY & TOUCH-SCREEN	SL	S0	S1		POWER [W]
	•	•	•	10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/70°:70° 10,4" Touch-Screen • 5 wires resistive technology • Controller integrated on board	
	•	•	•	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 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	+ 5
	•	•	•	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 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	+ 10
	•	•	•	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° 12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	+ 6
	•	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 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	+ 13
	•	•	•	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° 15,6" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 8
	•	•	•	17" LCD TFT 5:4 • SXGA, 1280x1024, 16M colors • LED backlight, 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	+ 22
	•	•	•	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° 18,5" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 18
	•	•	•	19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • LED backlight, 350 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85° 19" Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 30
	•	•	•	21,5" LCD TFT Wide 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89° 21,5" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 28
	•	•	•	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° 24" W Touch-Screen • 5 wires resistive technology • Controller integrated on board	+ 32

RAM MEMORY	SL	S0	S1		POWER [W]
	•	•	•	1 GB • 1 module SODIMM DDR3-1600	- 1
	•	•	•	2 GB • 1 module SODIMM DDR3-1600	
	•	•	•	4 GB • 1 module SODIMM DDR3-1600	+ 1
•	•	•	8 GB • 1 module SODIMM DDR3-1600	+ 2	

INTERNAL PSU	SL	S0	S1		POWER [W]
	•	•	•	Without UPS (uninterruptible power supply)	
•	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1	+ 1	

COMMUNICATION PORTS	SL	S0	S1		POWER [W]
	•	•	•	without possibility to add communication ports, below described	
•	•	•	with possibility to add communication ports, below described		

EXPANSION SLOTS	SL	S0	S1		POWER [W]
	•	•	•	No expansion slots	
	•	•	•	1 x PCI half size • on riser card • expansion board with max consumption 3W 1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size • on riser card • expansion board with max consumption 3W	+ 0

OPTIONS

	SL	S0	S1		POWER [W]
SSD mSATA > note 2	•	•	•	SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC	2
SSD 2,5" > note 2	•	•	•	SSD 2,5" SATA installation kit (SSD not included)	-
	•	•	•	SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC	5
HDD 2,5" > note 2	•	•	•	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 3	1
	•	•	•	1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 3	1
	•	•	•	2 x RS232 serial ports (DB9M) > note 3	2
	•	•	•	2 x USB 2.0 ports > note 3	0
POWER SUPPLY	•	•	•	1 x Ethernet 10/100/1000Mbps, Intel® I210	1
	•	•	•	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

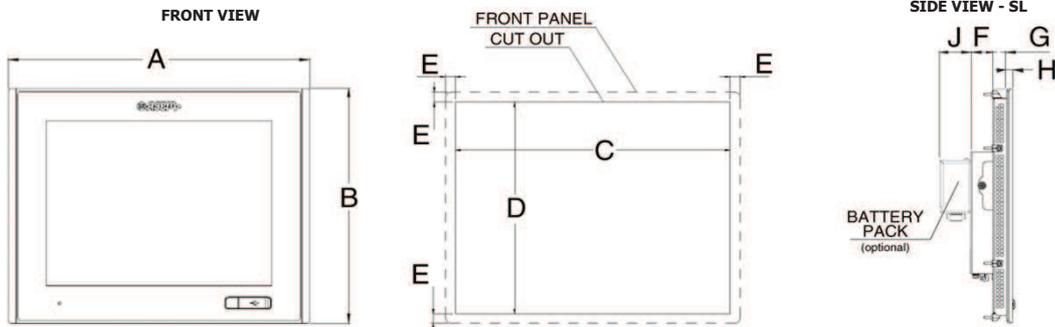
WARRANTY EXTENSION	SL	S0	S1		POWER [W]
	•	•	•	Warranty extension to 18 months on basic system and its variants	
	•	•	•	Warranty extension to 24 months on basic system and its variants	
•	•	•	Warranty extension to 36 months on basic system and its variants		

NOTES
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.
1: UPS module is supported by Microsoft Win32/64 operating systems
2: mSATA SSD and 2,5" SSD/HDD devices cannot be installed together
3: Communication ports signed by note 3 cannot be installed together



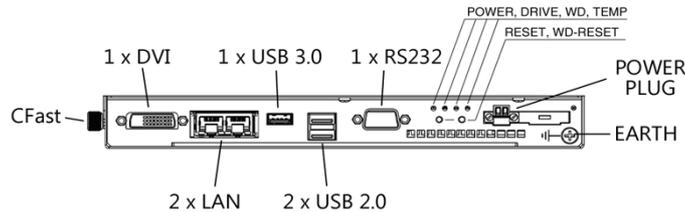
TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front panel	Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen	5 wires resistive technology • on board controller
Frontal protection	IP66
Power supply	24VDC 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 15'@5A and 25°C • Lifetime 10years@25°C
Motherboard	"All-In-One" type • ASEM 954
Watch dog	Time programmable
Intel platform	Processor Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board
Operating System	O.S. certified by ASEM Microsoft Windows 8.1 Industry Pro • Microsoft Windows 7 Pro/Ultimate 32/64bit • Microsoft Windows Embedded Standard 7E/7P 32/64 bit • Microsoft Embedded Compact 7 Pro • Linux Other operating systems, such as 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 XP / 2000 / 98 / NT • Microsoft Windows CE 5 / 6
Video controller	Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 688MHz • LVDS 8bit/color digital interface
Video RAM (shared)	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system (max 1720 MB)
System memory	DDR3-1066 type • 1 SODIMM module • min 1GB • max 8GB
Mass storage interfaces	SL 1 x mSATA 2, 3Gb/s
	S0/S1 1 x SATA 2, 3Gb/s or 1 x mSATA 2, 3Gb/s
CFast slot	1 x slot CFast (bootable) external access
Bus expansions slots	on riser card (S1) 1 x PCI or 1 x PCIe x1 • half size boards with 3W max consumption • alternative to each other
Frontal access interfaces	1 x USB 2.0
Rear access interfaces	2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® I210 • 1 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x DVI-I Single Link (max resolution: DVI-D/VGA 1920x1080 FullHD)
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°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)

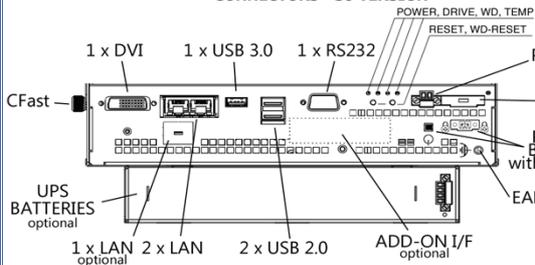


LCD TFT	A	B	C	D	E	F (SL/S0/S1)	G	H	J	Weight (kg)
10.4"	300	245	280	225	10	29 / 56 / 77	19	5	41,8	tbd
12.1"	335	270	315	250	10	29 / 56 / 77	19	5	41,8	tbd
12.1" W	331	234	313	216	9	29 / 56 / 77	21	5	41,8	tbd
15"	390	315	370	295	10	29 / 56 / 77	19	6	41,8	tbd
15.6"	430	275	410	255	10	29 / 56 / 77	19	6	41,8	tbd
17"	455	355	435	335	10	29 / 56 / 77	21	6	41,8	tbd
18.5"	500	320	480	300	10	29 / 56 / 77	21	6	41,8	tbd
19"	490	388	470	368	10	29 / 56 / 77	23	6	41,8	tbd
21.5"	579	367	559	347	10	29 / 56 / 77	23	6	41,8	tbd
24"	640	402	620	382	10	29 / 56 / 77	21,3	8	41,8	tbd

CONNECTORS - SL VERSION



CONNECTORS - S0 VERSION



CONNECTORS - S1 VERSION

