



HT3200-TF

fanless

Industrial Automation - Products & Configurations

HT3200-TF/SL BASIC SYSTEM				POWER [W]
Basic configuration	LCD TFT 12,1" SVGA • Touch-Screen • Intel® Celeron™ dual core 3765U 1,90 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • fanless • DVI-I video output for additional external monitor • without possibility to add communication ports • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • 12 months warranty			40
HT3200-TF/S0 BASIC SYSTEM				POWER [W]
Basic configuration	LCD TFT 12,1" SVGA • Touch-Screen • Intel® Celeron™ dual core 3765U 1,90 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • fanless • DVI-I video output for additional external monitor • with possibility to add communication ports • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • 12 months warranty			40
HT3200-TF/S1 BASIC SYSTEM				POWER [W]
Basic configuration	LCD TFT 12,1" SVGA • Touch-Screen • Intel® Celeron™ dual core 3765U 1,90 GHz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • fanless • DVI-I video output for additional external monitor • with possibility to add communication ports • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • 1 slot PCI • 12 months warranty			44
REMOTE ASSISTANCE	SL	S0	S1	
	•	•	•	ASEM UBIQUITY BASIC Win32 runtime
				-
PROCESSOR	•	•	•	Intel® Celeron 3765U 1,9GHz, 2 cores – 2 threads – 2MB smart cache
	•	•	•	Intel® Core™ i3-5010U 2,1GHz, 2 cores – 4 threads – 3MB smart cache
	•	•	•	Intel® Core™ i5-5350U 1,8GHz (2,9GHz Turbo), 2 cores – 4 threads – 3MB smart cache
	•	•	•	Intel® Core™ i7-5650U 2,2GHz (3,1GHz Turbo), 2 cores – 4 threads – 4MB smart cache
				+ 21
				+ 22
				+ 24
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 4:3 • 5 wires resistive technology • Controller integrated on board
				+ 5
	•	•	•	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°
	•	•	•	12,1" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board
				+ 1
	•	•	•	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°
	•	•	•	12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board
				+ 8
	•	•	•	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°
	•	•	•	15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board
				+ 3
	•	•	•	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°
	•	•	•	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board
				+ 12
	•	•	•	15,6" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • backlight LED, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85°
	•	•	•	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board
				+ 17
	•	•	•	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" Touch-Screen 5:4 • 5 wires resistive technology • Controller integrated on board
				+ 13
	•	•	•	18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/70°:70°
	•	•	•	18,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board
				+ 28
	•	•	•	19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°
	•	•	•	19" Touch-Screen 5:4 • 5 wires resistive technology • Controller integrated on board
				+ 23
	•	•	•	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°
	•	•	•	21,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board
				+ 27
	•	•	•	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 16:9 • 5 wires resistive technology • Controller integrated on board
RAM MEMORY	•	•	•	2 GB • 1 module SODIMM DDR3-1600
	•	•	•	4 GB • 1 module SODIMM DDR3-1600
	•	•	•	8 GB • 1 module SODIMM DDR3-1600
				+ 1
				+ 2
INTERNAL PSU	•	•	•	Without UPS (uninterruptible power supply)
	•	•	•	With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1
				+ 1
COMMUNICATION PORTS	•	•	•	without possibility to add communication ports, below described
	•	•	•	with possibility to add communication ports, below described
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	SL	S0	S1	
	•	•	•	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 3
				1
COMMUNICATION PORTS	•	•	•	1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 2
	•	•	•	1 x RS232/422/485 isolated serial port (DB15M) • 1 x USB 2.0 port > note 2
	•	•	•	2 x RS232 serial ports (DB9M) > note 2
	•	•	•	2 x USB 2.0 ports > note 2
	•	•	•	1 x Ethernet 10/100/1000Mbps, Intel® I210
				1
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
	•	•	•	Batteries kit for detached mounting (wall mount) • 100cm cable included
				15
				15
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
NOTE APPLICATIVE				
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 functionalities are ensured with Microsoft Win32/64bits operating systems only				
2: Communication ports signed by note 2 cannot be installed together				

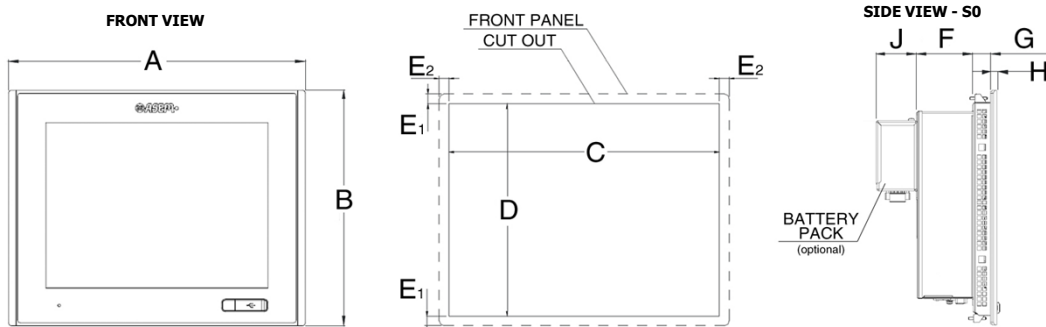


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TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front panel	Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen	5 wires resistive technology • on board controller
Frontal protection	IP66
Power supply	Isolated • Input voltage: 18÷32V DC • ATX mode push button (optional)
UPS (optional)	12V DC UPS (Uninterruptible Power Supply) battery backup system Batteries module (optional): Pb, 12V/13Ah 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 1251
Intel platform	Watch dog
	Time programmable
Processor	Intel® Celeron™ and fifth generation Intel® Core™ processors • Broadwell ULT dual core 15W
	Chipset
Operating system	Intel® Broadwell PCH-LP chipset (Platform Controller Hub - Low Power) • Included into processor's chip
	O.S. certified by ASEM
Software	Microsoft Windows 8.1 Industry Pro 32/64bit • Windows 7 Pro/Ultimate 32/64bit • Windows Embedded Standard 7E/7P 32/64 bit
	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
Video controller	O.S. not supported by Intel platform
	Microsoft Windows XP / 2000 / 98 / NT • Microsoft Windows CE 5 / 6
Remote assistance	ASEM UBIQUITY BASIC Win32 runtime license with ASEM sticker
Video memory	Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 850MHz • LVDS 8bit/color digital interface
	Intel® HD Graphics 5500 integrated into Intel® Core™ i3 microprocessor • 900MHz • LVDS 8bit/color digital interface
System memory	Intel® HD Graphics 6000 integrated into Intel® Core™ i5, i7 microprocessors • 1GHz • LVDS 8bit/color digital interface
	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
Mass storage controller	DDR3-1066 type • 1 SODIMM module • min 2GB • max 8GB
	SL
TPM	1 x mSATA 3, 6Gb/s • integrated on board
	SO, S1
CFast slot	1 x SATA 3, 6Gb/s • 1 x mSATA 3, 6Gb/s • integrated on board
	2x10 (2,54) pin-strip connector for optional TPM module
Expansion slot	1 x slot CFast (bootable) external access
	on riser card (S1)
Frontal access interfaces	1 x PCI or 1 x PCIe 4x • half size boards with 3W max consumption • alternative to each other
	1 x USB 2.0 (Type A, IP65)
Rear access interfaces	3 x Ethernet 10/100/1000 Mbps (R345 - 2 x Intel® I210-AT, 1 x Intel® I218-LM) • 2 x USB 3.0 (Type A) • 1 x USB 2.0 (Type A) • 1 x RS232 (DB9) • DVI-I video output (DVI-D + VGA with adapter, max resolution: 2048x1536 QXGA)
	1 x RS-232 (DB9M)
Environmental specifications	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)
	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1)
Standard warranty	12 months • Warranty management by ASEM headquarters

OVERALL DIMENSIONS (mm)



LCD TFT	A	B	C	D	E	(SL/S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10	41/56/86	19	5	41,8	tdb
12,1" W	331	234	313	218	9	41/56/86	21	5	41,8	tdb
15"	390	315	370	295	10	41/56/86	19	6	41,8	6,4
15,6"	430	275	410	255	10	41/56/86	19	6	41,8	tdb
17"	455	355	435	335	10	41/56/86	21	6	41,8	tdb
18,5"	500	320	480	300	10	41/56/86	21	6	41,8	tdb
19"	490	388	470	368	10	41/56/86	23	6	41,8	tdb
21,5"	579	367	559	347	10	41/56/86	23	6	41,8	tdb
24"	640	402	620	382	10	41/56/86	21,3	8	41,8	9,9

CONNECTORS VIEW S1 version

