HT3200-TFX

fanless

Industrial Automation - Products & Configurations

HT3200-TFX/SL BASIC SYSTEM		POWER [W]
Basic configuration	LCD TFT 12,1" SVGA ▪ Touch-Screen ▪ Intel® Celeron™ dual core 3765U 1,90GHz ▪ 2GB RAM ▪ Stainless Steel 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-TFX/S0 BASIC SYSTEM		POWER [W]
Basic configuration	LCD TFT 12,1" SVGA ▪ Touch-Screen ▪ Intel® Celeron™ dual core 3765U 1,90 GHz ▪ 2GB RAM ▪ Pannello frontale TrueFlat in acciaio INOX ▪ 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-TFX/S1 BASIC SYSTEM		POWER [W]
Basic configuration	LCD TFT 12,1" SVGA ▪ Touch-Screen ▪ Intel® Celeron™ dual core 3765U 1,90 GHz ▪ 2GB RAM ▪ Pannello frontale TrueFlat in acciaio INOX ▪ 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

	SL	S0	S1		POWER [W]
REMOTE ASSISTANCE	●	●	●	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	+ 21
	●	●	●	Intel® Core™ i5-5350U 1,8Ghz (2,9GHz Turbo), 2 cores – 4 threads – 3MB smart cache	+ 22
	●	●	●	Intel® Core™ i7-5650U 2,2Ghz (3,1GHz Turbo), 2 cores – 4 threads – 4MB smart cache	+ 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	
	●	●	●	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	+ 5
	●	●	●	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	+ 8
	●	●	●	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	+ 17
	●	●	●	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	+ 28
RAM MEMORY	●	●	●	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	●	●	●	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]
	SL	S0	S1		
TPM	●	●	●	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
		●	●	1 x RS232/422/485 isolated 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 10/100/1000Mpbs, 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	15
	●	●	●	Batteries kit for detached mounting (wall mount) ▪ 100cm cable included	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	

NOTES

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: UPS functionalities are ensured with Microsoft Win32/64bits operating systems only

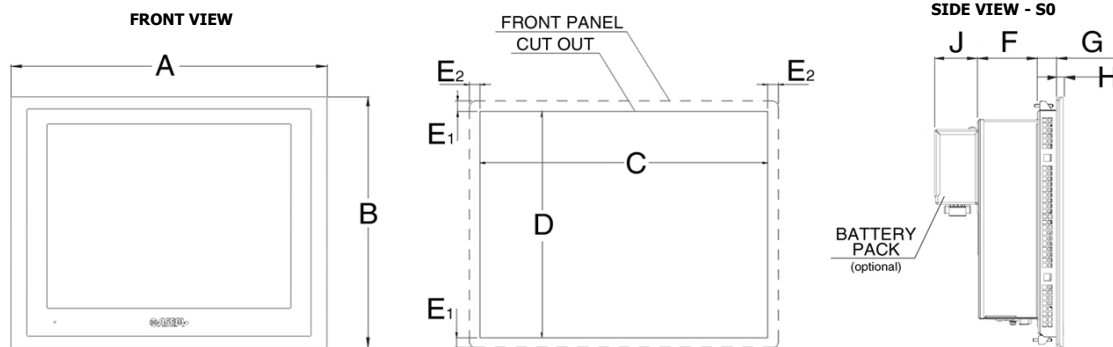**2:** Communication ports signed by note 2 cannot be installed together

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ASEM STANDARD

TECHNICAL SPECIFICATIONS		
Case		Panel mount
Overall dimensions & weight		See details on the related section
Front panel		TrueFlat stainless steel AISI 304 (UNI/EN 1.4301), medium surface brushing, size 180 • Polyester Autoflex EB A180 RAL 7035 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/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 1251
	Watch dog	Time programmable
Intel platform	Processor	Intel® Celeron™ and fifth generation Intel® Core™ processors • Broadwell ULT dual core 15W
	Chipset	Intel® Broadwell PCH-LP chipset (Platform Controller Hub - Low Power) • Included into processor's chip
Operating system	O.S. certified by ASEM	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
	O.S. not supported by Intel platform	Microsoft Windows XP / 2000 / 98 / NT • Microsoft Windows CE 5 / 6
Software	Remote assistance	ASEM UBIQUITY BASIC Win32 runtime license with ASEM sticker
Video controller		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
		Intel® HD Graphics 6000 integrated into Intel® Core™ i5, i7 microprocessors • 1GHz • LVDS 8bit/color digital interface
Video memory		Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory		DDR3-1066 type • 1 SODIMM module • min 2GB • max 8GB
Mass storage controller	SL	1 x mSATA 3, 6Gb/s • integrated on board
	S0, S1	1 x SATA 3, 6Gb/s • 1 x mSATA 3, 6Gb/s • integrated on board
TPM		2x10 (2,54) pin-strip connector for optional TPM module
CFast slot		1 x slot CFast (bootable) external access
Expansion slot	on riser card (S1)	1 x PCI or 1 x PCIe 4x • 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® 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)
Rear access serial interfaces		1 x RS-232 (DB9M)
Environmental specifications		Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C 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)
Standard warranty		12 months • Warranty management by ASEM headquarters

OVERALL DIMENSIONS (mm)

FRONT VIEW

FRONT PANEL CUT OUT

SIDE VIEW - S0

BATTERY PACK (optional)

LCD TFT	A	B	C	D	E₁/E₂	(SL/S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10/10	41/56/86	19	6	41,8	tbd
15"	398	315	370	295	10/14	41/56/86	19	6	41,8	tbd
17"	455	355	435	335	10/10	41/56/86	21	6	41,8	tbd
19"	490	388	470	368	10/11	41/56/86	23	6	41,8	tbd

CONNECTORS VIEW
S1 version

1 x RS232 • 1 x USB2.0 • 2 x USB3.0 • DVI-I • POWER, DRIVE, WD, TEMP • RESET, WD-RESET • EARTH • UPS optional • POWER PLUG • POWER BUTTON with REMOTE optional • ADD-ON I/F optional

1 x LAN optional • PCI / PCIe • UPS BATTERIES optional • 3 x LAN