





HT3500-TF fanless

Industrial Automation - Products & Configurations

Basic config	uration	LCD TFT 12,1" SVGA • Aluminum TrueFlat front panel • Touch-Screen • Intel® Celeron® dual core 3965U 2,20 GHz • 4GB RAM • Without possibility to	_
		add additional interfaces • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	
		HT3500-TF/S0	
Basic config	uration	LCD TFT 12,1" SVGA • Aluminum TrueFlat front panel • Touch-Screen • Intel® Celeron® dual core 3965U 2,20 GHz • 4GB RAM • With possibility to add additional interfaces • 24V DC isolated power supply • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	į
		HT3500-TF/S1	
Basic configuration		LCD TFT 12,1" SVGA • Aluminum TrueFlat front panel • Touch-Screen • Intel® Celeron® dual core 3965U 2,20 GHz • 4GB RAM • With possibility to add additional interfaces • 24V DC isolated power supply • 1 PCIe x4 slot • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	t
REMOTE ASSISTANCE	SL S0 S1		Ψ
		Intel® Celeron® 3965U • 2,20 GHz, 2MB smart cache • 2 cores, 2 threads • Soldered on-board	Ψ
PROCESSOR	• • •	Intel® Core™ i3-7100U • 2,40 GHz, 3MB smart cache • 2 cores, 4 threads • Soldered on-board	
	• • •	Intel® Core [™] i5-7300U • 2,60 GHz (3,50 GHz Turbo), 3MB smart cache • 2 cores, 4 threads • Soldered on-board Intel® Core [™] i7-7600U • 2,80 GHz (3,90 GHz Turbo), 4MB smart cache • 2 cores, 4 threads • Soldered on-board	
			Ψ
	• • •	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° Touch-screen • 5 wires resistive technology • Controller integrated on board	
DISPLAY &	• • •	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 89°:89°/89°:89° Touch-screen • 5 wires resistive technology • Controller integrated on board	
	• • •	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° Touch-screen • 5 wires resistive technology • Controller integrated on board	
	• • •	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° Touch-screen • 5 wires resistive technology • Controller integrated on board	
	• • •	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° Touch-screen • 5 wires resistive technology • Controller integrated on board	
	• • •	15,6" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85° Touch-screen • 5 wires resistive technology • Controller integrated on board	
TOUCH-SCREEN		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° Touch-screen • 5 wires resistive technology • Controller integrated on board	
		18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° Touch-screen • 5 wires resistive technology • Controller integrated on board	
		18,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 500 cd/m2 • Viewing L:R/U:L (typ): 89°:89°/89°:89° Touch-screen • 5 wires resistive technology • Controller integrated on board	
		19" LCD TFT 5:4 • SXGA 1280x1024, 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°	
		Touch-screen • 5 wires resistive technology • Controller integrated on board 21,5" 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°	
		Touch-screen • 5 wires resistive technology • Controller integrated on board 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°	
		Touch-screen • 5 wires resistive technology • Controller integrated on board	Ψ
RAM MEMORY INTERNAL PSU > note 1	• • •	4 GB • 1 module SODIMM DDR4 8 GB • 1 module SODIMM DDR4	
	• • •	16 GB • 1 module SODIMM DDR4	←
	• • •	Without UPS (uninterruptible power supply) With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included	
ADDITIONAL	•	Without possibility to add additional interfaces, below described	←
INTERFACES	• •	With possibility to add additional interfaces, below described	¥
EXPANSION SLOTS	• •	No expansion slots 1 x PCIe x4 (Generation 3) half size (106 x 175mm) • on riser card • expansion board with max consumption 5W	
EXPANSION SEO13	•	1 x PCI half size (106 x 175mm) • on riser card • expansion board with max consumption 5W	
	SL S0 S1	OPTIONS	Ψ
ТРМ	• • •	TPM - Trusted Platform Module	
SSD M.2	• • •	SSD M.2 NVMe PCIe dissipation kit > note 2 SSD on M.2 onboard connector, NVMe PCIe x2	
	• • •	SSD M.2 2242onboard connector • SATA	
SSD/HDD 2,5"	• • •	SSD/HDD 2,5" SATA installation kit (SSD/HDD not included) SSD 2,5", SATA	
	• • •	HDD 2,5" SATA	
CFAST	• • •	CFast SATA	
ADDITIONAL INTERFACES Pos. A > note 3	• •	1 x RS232/42/485 (DB15M) • 1 x USB 2.0 1 x RS232/422/485 (DB15M) isolated • 1 x USB 2.0	
	• •	2 x RS232 (DB9M)	
		2 x USB 2.0	
ADDITIONAL INTERFACES Pos. B > note 4	• •	1 x Ethernet 10/100/1000Mbps, Intel® 1210 WiFi Module, IEEE 802.11a/b/g/n, 2,4GHz-5GHz • Modern 4G-GLOBAL	
	• •	NETcore® X card fieldbus module • "26 pin" connector 1 x additional video output DVI-D	
	• •	1 x additional video output RVL - Remote Video Link • Remotation up to 100m of DVI-D and USB 2.0 signals • without cables	
POWER SUPPLY	••	Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command	
UPS BATTERY KIT	• • •	Batteries kit for rear systems mounting • cable included Batteries kit for detached mounting (wall mount)	
	• • •	Warranty extension to 18 month	Ψ
WARRANTY EXTENSION	• • •	Warranty extension to 24 months Warranty extension to 36 months	
NATE O		infiguration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to	
NOTES			







HT3500-TF fanless

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		IP65				
Power supply		24 V DC 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/8A max, 2500mA/h • Charge time 3h@25°C • Discharge time 5'@ 8A and 25°C • Lifetime 10years@25°C				
Motherboard T		"All-In-One" ASEM 1352				
	Watch dog	Time programmable				
Intel platform	Processor	Intel® Celeron® and seventh generation Intel® Core™ processors • Kaby Lake ULT dual core 15W				
	Chipset	Intel® Kaby Lake U PCH (Platform Controller Hub) • Included into processor's chip				
O.S. certified by ASEM		Microsoft Windows 10 IoT Enterprise 2019 64bit • Microsoft Windows 10 IoT Enterprise 2016 64bit				
Software	Remote assistance	UBIQUITY BASIC Win32/64 runtime license with ASEM sticker				
Video controller		Intel® HD Graphics 610 integrated into Intel® Celeron® microprocessor • 900MHz				
		Intel® HD Graphics 620 integrated into Intel® Core™ microprocessor • 1,00GHz / 1,10GHz / 1,15Ghz				
Video memory		Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system				
System memory		DDR4-2133 type • 1 SODIMM module • min 4GB • max 16GB				
Mass storage controller	SL	1 x SSD M.2 2242/2280 NVMe PCIe x2 / SATA III integrated on board				
	S0, S1	1 x SSD M.2 2242/2280 NVMe PCIe x2 / SATA III integrated on board • 1 x SSD/HDD 2,5" SATA III, 6Gb/s on installation kit				
TPM		2x10 (2,54) pin-strip connector for optional TPM module				
CFast slot		1 x slot CFast (bootable) SATA III, 6Gb/s external access				
Expansion slot	on riser card (S1)	1 x PCI or 1 x PCIe x4 • half size (106 x 175mm) boards with 5W max consumption • alternative to each other				
Frontal access interfaces		1 x USB 2.0 (Type A, IP65)				
Rear access interfaces		3 x Ethernet 10/100/1000 Mbps (R345 - 2 x Intel® 1210, 1 x Intel® 1219-LM) • 4 x USB 3.0 (Type A) • DP++ video output				
Rear access serial interfaces		1 x RS-232 (DB9M)				
Environmental specifications		Operating temperature: $0^{\circ} \div +50^{\circ}$ C, 0° C $\div +45^{\circ}$ C with $24x7$ HDD, $+5^{\circ}$ C $\div +45^{\circ}$ C with standard HDD Storage temperature: $-10^{\circ} \div +60^{\circ}$ C \star Humidity: 80% (non-condensing)				
Approvals		CE (EN61326-1, EN61010-1, EN61010-2-201) • cULus LISTED (UL61010) pending				
Standard warranty		12 months • Warranty management by ASEM headquarters				

