







## **Industrial Automation - Products & Configurations**

Basic config	uration	LCD TFT 15,6" W HD • Aluminum and glass TrueFlat front panel • Touch-Screen Multitouch • 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	
		QT3500-TFM/S0	
Basic configuration		LCD TFT 15,6" W HD • Aluminum and glass TrueFlat front panel • Touch-Screen Multitouch • 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	
		QT3500-TFM/S1	
Basic configuration		LCD TFT 15,6" W HD • Aluminum and glass TrueFlat front panel • Touch-Screen Multitouch• Intel® Celeron® dual core 3965U 2,20 GHz • 4GB RAM • W possibility to add additional interfaces • 24V DC isolated power supply • 1 PCI slot x4 • UBIQUITY BASIC Win32/64 runtime • 12 months warranty	'ith
REMOTE ASSISTANCE	SL S0 S1	UBIQUITY BASIC Win32/64 runtime	Ψ
PROCESSOR	• • •	Intel® Celeron® 3965U • 2,20 GHz, 2MB smart cache • 2 cores, 2 threads • Soldered on-board	Ψ
	• • •	Intel® Core <sup>™</sup> 13-7100U - 2,40 GHz, 3MB smart cache • 2 cores, 4 threads • Soldered on-board  Intel® Core <sup>™</sup> 15-7300U • 2,60 GHz (3,50 GHz Turbo), 3MB smart cache • 2 cores, 4 threads • Soldered on-board  Intel® Core <sup>™</sup> 17-7600U • 2,80 GHz (3,90 GHz Turbo), 4MB smart cache • 2 cores, 4 threads • Soldered on-board	Ψ
		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 • P-CAP projected capacitive touchscreen	¥
	• • •	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 • P-CAP projected capacitive touchscreen  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°	
DISPLAY & TOUCH-SCREEN	• • •	Touch-Screen • P-CAP projected capacitive touchscreen  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 • P-CAP projected capacitive touchscreen  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 • P-CAP projected capacitive touchscreen	
		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 • P-CAP projected capacitive touchscreen	
RAM MEMORY	• • •	4 GB • 1 module SODIMM DDR4 8 GB • 1 module SODIMM DDR4	Ψ
	•••	16 GB • 1 module SODIMM DDR4	Ψ
INTERNAL PSU > note 1	• • •	Without UPS (uninterruptible power supply) With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included	Ψ
ADDITIONAL INTERFACES	•	Without possibility to add additional interfaces, below described 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  1 x PCI half size (106 x 175mm) • on riser card • expansion board with max consumption 5W	Ψ
	SL S0 S1	OPTIONS	¥
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" SATA installation kit (SSD/HDD not included)	
SSD/HDD 2,5"	• •	SSD 2,5", SATA HDD 2,5" SATA	
CFAST		CFast SATA	
ADDITIONAL INTERFACES Pos. A > note 3	• •	1 x RS232/422/485 (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  1 x Ethernet 10/100/1000Mbps, Intel® I210	
ADDITIONAL INTERFACES Pos. B > note 4	• •	WiFi Module, IEEE 802.11a/b/g/n, 2,4GHz-5GHz • Modem 4G-GLOBAL  NETcore® X card fieldbus module • "26 pin" connector  1 x additional video output DVI-D	#
POWER SHEET		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  UPS BATTERY KIT		Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command  Batteries kit for rear systems mounting • cable included	
UPS DATTERY KIT	•••	Batteries kit for detached mounting (wall mount)  Warranty extension to 18 month	Ψ
WARRANTY EXTENSION	• • •	Warranty extension to 18 month Warranty extension to 24 months Warranty extension to 36 months	
NOTES The power consu	mption of the co	infiguration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to ith Microsoft Win32/64bits operating systems only	the









TECHNICAL SPECIFICATIONS					
Case		Panel mount			
Overall dimensions & weight		See details on the related section			
Front panel		Aluminum and tempered glass TrueFlat			
Touchscreen		Projective capacitive multitouch			
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	Type	"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			
Rear access interfaces		3 x Ethernet 10/100/1000 Mbps (R345 - 2 x Intel® I210, 1 x Intel® I219-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° ÷ +50°C, 0°C ÷ +45°C with 24x7 HDD, +5°C ÷ +45°C with standard HDD Storage temperature: -10° ÷ +60°C • 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			

