

QT3500 & HT3500

Fanless panel IPCs with Intel® Kaby Lake U



HIGHLIGHTS

- TFT LCDs in 12.1" and 15" in 4:3 aspect ratio, 17" and 19" in 5:4 aspect ratio and 12.1", 15.6", 18.5", 21.5", 24" in Wide aspect ratio
- Resolution up to Full HD
- Aluminum (ALU) and aluminum True Flat (TF) front panels with resistive touchscreen
- Aluminum and glass True Flat panels with multitouch projected capacitive touchscreen (TFM)
- Stainless steel True Flat (TFX) front panels with resistive touchscreen
- Intel® Celeron® 3965U dual-core 2,20 GHz, Intel® Core™ i3-7100U dual-core 2,40 GHz, Intel® Core™ i5-7300U dual-core 2,60 GHz and Intel® Core™ i7-7600U dual-core 2,80 GHz processors of Kaby Lake generation
- RAM up to 16GB
- Fanless IPCs
- Built-in UPS with external battery pack (optional)
- Available in SL version with reduced depth, S0 version with the possibility to install additional interfaces and S1 version with one PCI or PCIe expansion slot
- Available with additional RVL (Remote Video Link) interface for remotation of the DVI-D and USB 2.0 signals up to 100m (optional)
- Integrated UBIQUITY software for remote assistance via end-to-end VPN connection
- FactoryTalk® Optix™ software for HMI and Edge Computing applications (optional)

 **UBIQUITY INSIDE**

 **Optix™ OPTIONAL**

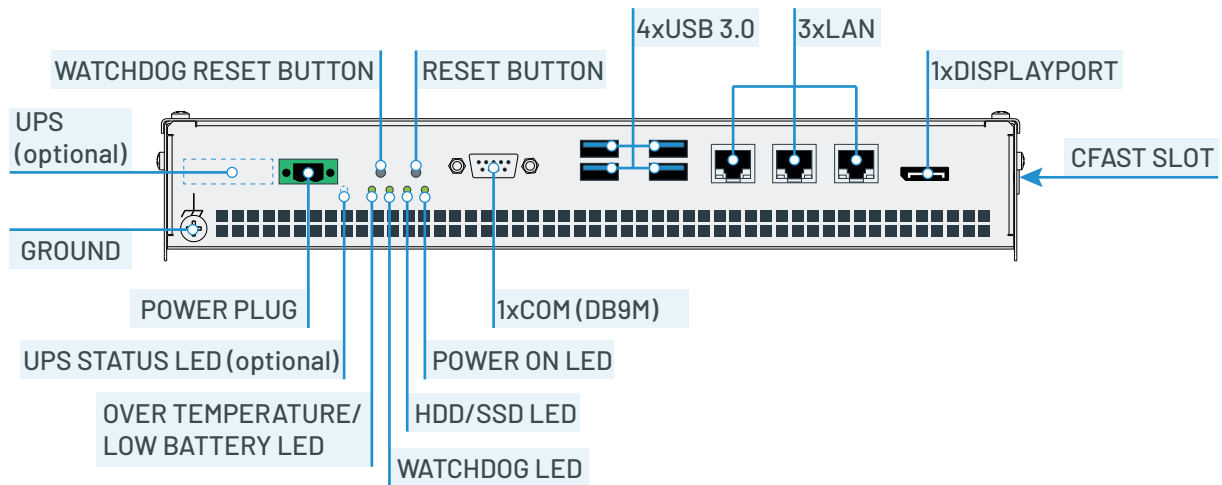
RVL  **OPTIONAL**

  
 **LISTED**

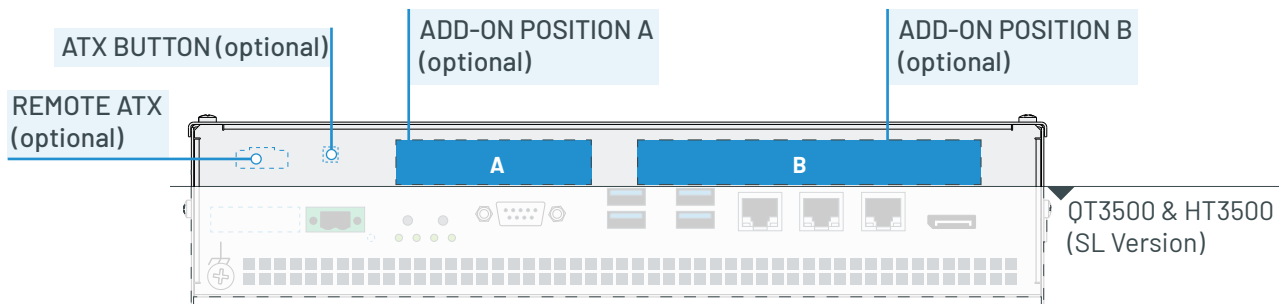
QT3500 & HT3500

I/O SHIELD AND ADD-ON BOARDS

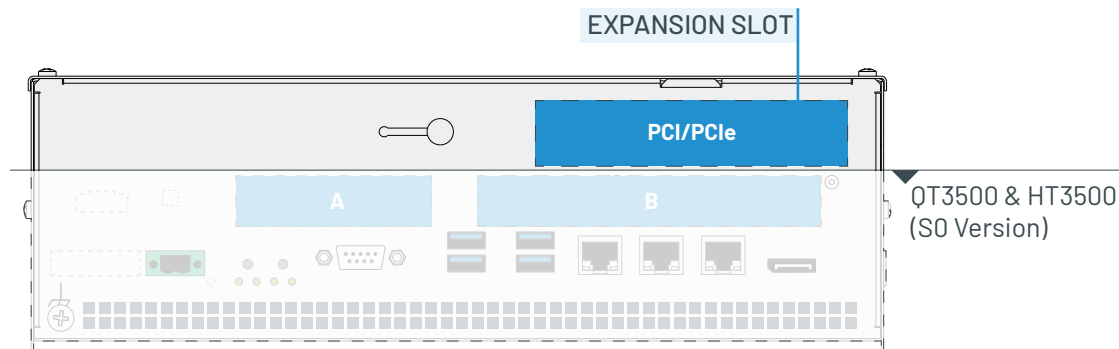
QT3500 & HT3500 - (SL Version)



QT3500 & HT3500 - (S0 Version)



QT3500 e HT3500 - (S1 Version)



POSITION A

- 1x RS232/422/485 (DB15M) + 1x USB 2.0 (Type-A)
- 1x RS232/422/485 (DB15M) isolated + 1x USB 2.0 (Type-A)
- 2x RS232/422/485 (DB9M)
- 2x RS232/422/485 optoisolated (DB9M)
- 2x USB 2.0 (Type-A)

POSITION B

- 1x Gigabit Ethernet (RJ45)
- 1x DVI-D (Resolution up to 1900x1200)
- 1x RJ45 connector for RVL
- 1x Wi-Fi module (IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 4.2) and/or 1x Cellular module (worldwide LTE Cat 4, GSM/GPRS, UMTS/HSPA coverage)

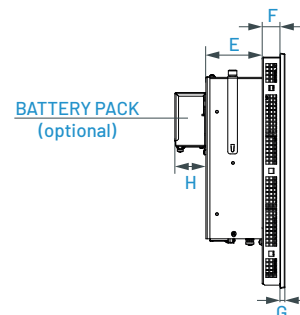
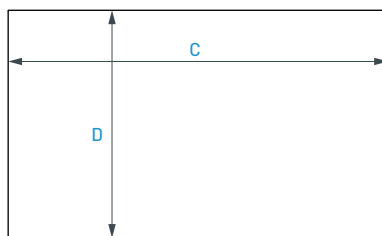
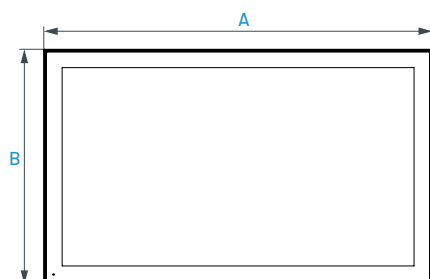
DIMENSIONS

FRONT VIEW

CUT-OUT

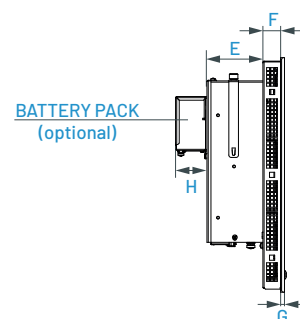
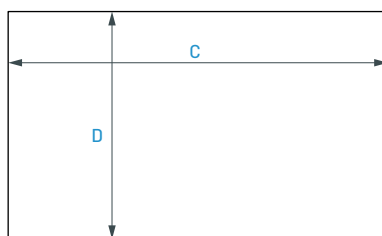
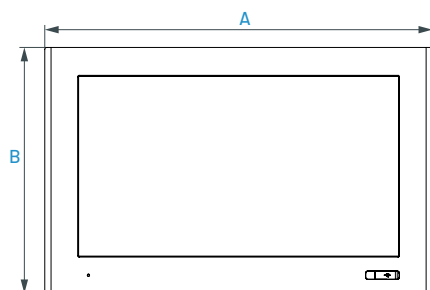
SIDE VIEW

QT3500 - ALU/TFM



LCD	A	B	C	D	E (SL/S0/S1)	F	G (ALU/TFM)	H
15,6"W	395	245	388	238	44,5/59,5/90,5	25	4,5 / 6	41.8
18,5"W	461	282	453	274	44,5/59,5/90,5	25	6	41.8
21,5"W	528	319	520	312	44,5/59,5/90,5	25	6	41.8
24"W	584	352	577	344	44,5/59,5/90,5	25	6	41.8

HT3500 - ALU/TF



LCD	A	B	C	D	E (SL/S0/S1)	F	G	H
12,1"	335	270	315	250	44,5/59,5/90,5	19	5	41.8
12,1" W	331	234	313	218	44,5/59,5/90,5	21	5	41.8
15"	390	315	370	295	44,5/59,5/90,5	19	6	41.8
15,6"W	430	275	410	255	44,5/59,5/90,5	19	6	41.8
17"	455	355	435	335	44,5/59,5/90,5	21	6	41.8
18,5"W	500	320	480	300	44,5/59,5/90,5	21	6	41.8
19"	490	388	470	368	44,5/59,5/90,5	23	6	41.8
21,5"W	579	367	559	347	44,5/59,5/90,5	23	6	41.8
24"W	640	402	620	382	44,5/59,5/90,5	21.3	8	41.8

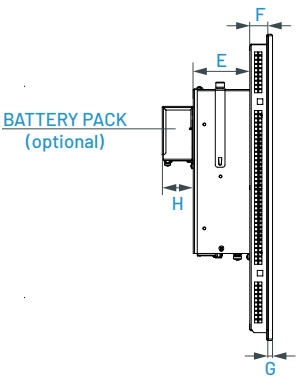
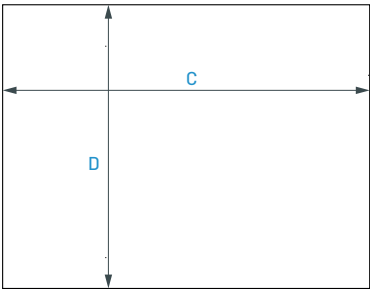
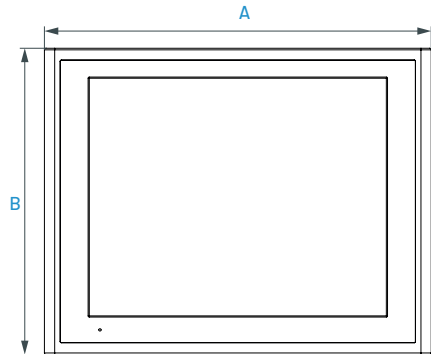
DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

HT3500 - TFX



LCD	A	B	C	D	E (SL/S0/S1)	F	G	H
12.1"	335	270	315	250	44,5/59,5/90,5	19	6	41.8
15.0"	398	315	370	295	44,5/59,5/90,5	19	6	41.8
17.0"	455	355	435	335	44,5/59,5/90,5	21	6	41.8
19.0"	490	388	470	368	44,5/59,5/90,5	23	6	41.8

QT3500 & HT3500

TECHNICAL DATA

		QT3500 -ALU	QT3500 -TFM	HT3500 -ALU	HT3500 -TF	HT3500 -TFX
LED BACKLIGHT TFT LCD		15.6" W - 1366x768 15.6" W - 1920x1080 18.5" W - 1366x768 18.5" W - 1920x1080 21.5" W - 1920x1080 24"W - 1920x1080		12.1" - 800x600 12.1" - 1024x768 12.1" W - 1280x800 15" - 1024x768 15.6" W - 1366x768 15.6" W - 1920x1080 17" - 1280x1024 18.5" W - 1366x768 18.5" W - 1920x1080 19" - 1280x1024 21.5" W - 1920x1080 (only ALU version) 24"W - 1920x1080		12.1" - 800x600 12.1" - 1024x768 15" - 1024x768 17" - 1280x1024 19" - 1280x1024
CUT-OUT		QT		HT		
FRONT USB		-		1 x USB 2.0 (Type-A), protected		-
TOUCHSCREEN		Resistive 5 wires	P-CAP Multitouch	Resistive 5 wires		Resistive 5 wires
FRONT PANEL	Material	Aluminum	True Flat Aluminum	Aluminum	True Flat Aluminum	True Flat Stainless Steel
	ASEM Logo	-		Adhesive label	Silk-screen printed	Silk-screen printed
PROTECTION GRADE	IP rating	IP65 - frontal				IP66K - frontal
	NEMA rating	UL Type 1, 4x (indoor only)		UL Type 1, 4x (indoor only) and 12		
CASE	Installation	Panel mounting				
	Material	Zinc coated stainless steel				
PROCESSOR (soldered on-board)		Intel® Celeron® 3965U 2.20GHz 64bit • 2 cores / 2 threads • 2MB Smart cache • 14nm Intel® Core™ i3-7100U 2.40GHz 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-7300U 2.60GHz (3.50GHz Turbo) 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i7-7600U 2.80GHz (3.90GHz Turbo) 64bit • 2 cores / 4 threads • 4MB Smart cache • 14nm				
CHIPSET		Intel® Kaby Lake U PCH (Platform Controller Hub) • Included into processor chip (SoC)				
VIDEO CONTROLLER		Intel® HD Graphics 610 integrated in Intel® Celeron® processor • 300MHz/900MHz Intel® HD Graphics 620 integrated in Intel® Core™ i3 processor • 300MHz/1GHz Intel® HD Graphics 620 integrated in Intel® Core™ i5 processor • 300MHz/1.10GHz Intel® HD Graphics 620 integrated in Intel® Core™ i7 processor • 300MHz/1.15GHz				
WATCHDOG		Programmable time period				
TPM	Discrete version only for S0/S1 versions and BM	Intel® PTT (TPM integrated) • Discrete TPM 2.0 module (optional)				
SYSTEM MEMORY RAM		4GB or 8GB or 16GB (1x SODIMM DDR4 module)				
MASS STORAGE	Cfast	1x bootable CFast SATA III slot onboard with external access (up to 240GB)				
	SSD mSATA	-				
	SSD M.2	1x onboard connector for direct insertion of M.2 2280 NVMe PCIe x2 SSD (up to 512GB) or M.2 2280 NVMe PCIe x4 SSD (up to 1TB) ¹ or M.2 2242 SATA III SSD (up to 480GB)				
	SSD/HDD only S0/S1 versions and BM	1x onboard connector for SSD/HDD 2.5" SATA III with internal installation kit				
INTERFACES	LAN	3x Gigabit Ethernet (RJ45)				
	USB	4x USB 3.0 (Type-A)				
	SERIAL	1x RS232 (DB9M)				
	VIDEO	1x DisplayPort++ V1.2				
ADD-ON INTERFACES (optional) not available for SL version	Position A (max 1)	1x RS232/422/485 (DB15M) + 1x USB 2.0 (Type-A) 1x RS232/422/485 (DB15M) isolated + 1x USB 2.0 (Type-A) 2x RS232/422/485 (DB9M) 2x RS232/422/485 optoisolated (DB9M) 2x USB 2.0 (Type-A)				
	Position B (max 1)	1x Gigabit Ethernet (RJ45) 1x DVI-D (Resolution up to 1900x1200) 1x RJ45 connector for RVL 1x Wi-Fi module (IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 4.2) and/or 1x Cellular module (worldwide LTE Cat 4, GSM/GPRS, UMTS/HSPA coverage)				

TECHNICAL DATA

		QT3500 -ALU	QT3500 -TFM	HT3500 -ALU	HT3500 -TF	HT3500 -TFX
EXPANSION SLOTS	only S1 version	1x PCI half-length or 1x PCIe x4 half-length, on riser card, max 5W				
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated				
POWER SUPPLY (optional)	UPS	UPS with external battery pack (Pb • 12V/2.5A) (backside or separate mounting)				
	ATX only S0/S1 versions	Kit for ATX mode power supply (push button, internal cable and connector for remote control)				
BATTERY		1x CR2032 internal access				
O.S. CERTIFIED		Microsoft Windows 10 IoT Enterprise 2019/2016 64 bit				
OPERATING TEMPERATURE		0°C ÷ 50°C 0°C ÷ 45°C (24x7 HDD or Intel® Core™ i7 processor) 5°C ÷ 45°C (Standard HDD)				
STORAGE TEMPERATURE		-10°C ÷ 60°C				
OPERATING/STORAGE RELATIVE HUMIDITY		20% ÷ 90% RH (non-condensing)				
APPROVALS		CE RoHS UKCA cULus Listed				

- The M.2 NVMe PCIe x4 SSDs show actual performance that differs from the manufacturer's claims, as they are driven via 2 lanes (socket M.2 PCIe x2). Data transfer rates are about half of the declared value (comparable to M.2 NVMe PCIe x2 SSDs).

GALLERY



QT3500-ALU



QT3500-TFM



HT3500-ALU



HT3500-TF



HT3500-TFX