

QT2200 & HT2200

Fanless panel IPCs with Intel® Bay Trail platform



HIGHLIGHTS

- TFT LCDs in 10.4", 12.1" and 15" in 4:3 aspect ratio, 17" and 19" in 5:4 aspect ratio and 10.1", 12.1", 15.6", 18.5", 21.5", 24" in Wide aspect ratio
- Resolution up to Full HD
- Aluminum (ALU), aluminum True Flat (TF) and stainless steel True Flat (TFX) front panels with resistive touchscreen
- Aluminum and glass True Flat panels with multitouch projected capacitive touchscreen (TFM)
- Intel® Celeron® J1900 quad-core 2,00 GHz processors of Bay Trail SoC generation
- RAM up to 8GB
- Fanless IPCs
- Built-in UPS with external battery pack (optional)
- Built-in supercapacitors μ UPS, with 256kB MRAM for retentive data management (optional)
- Available in SL version with reduced depth, S0 version with the possibility to install additional interfaces and S1 version with PCI or PCIe expansion slot
- ATEX certification for QT-TFM versions (optional)
- Integrated UBIQUITY software for remote assistance via end-to-end VPN connection
- FactoryTalk® Optix™ software for HMI and Edge Computing applications (optional)
- CODESYS software for control, motion and CNC SoftPLC applications (optional)

 **UBIQUITY INSIDE**

 **Optix™ OPTIONAL**

 **CODESYS OPTIONAL**

 **IP66K** 
(only TFX frontal)

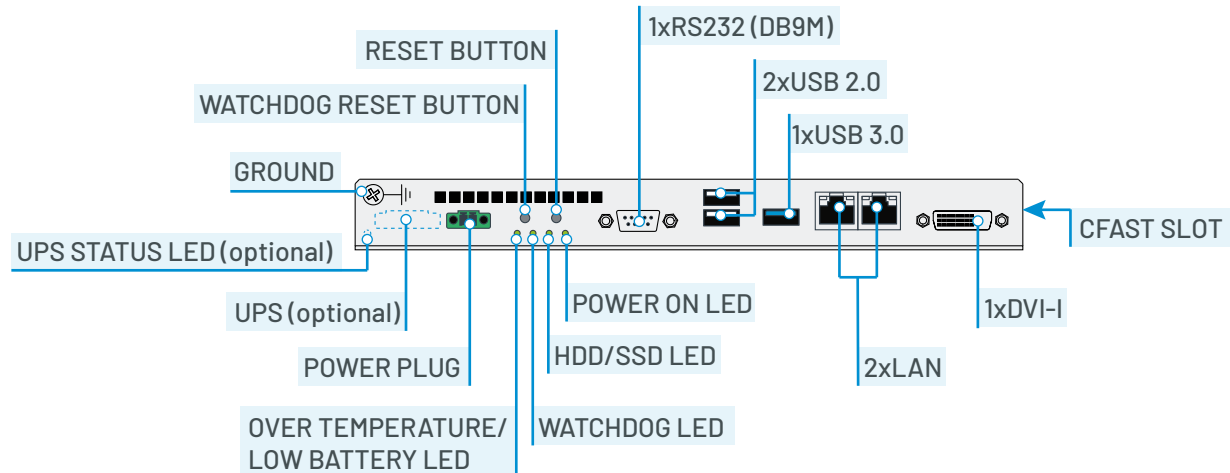
  
 

*only TFM frontal

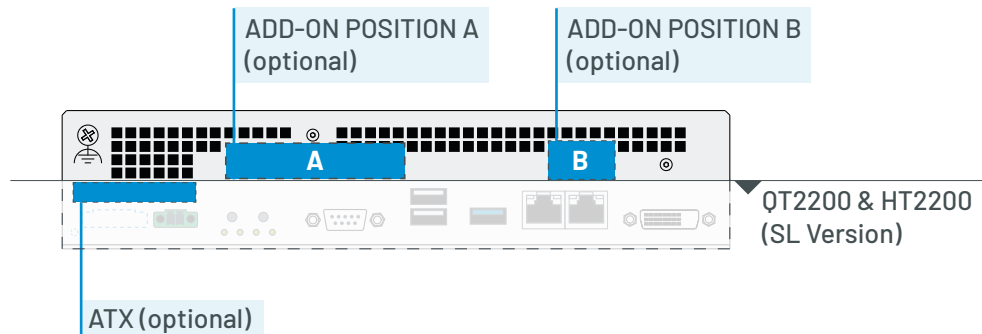
QT2200 & HT2200

I/O SHIELDS AND ADD-ON BOARDS

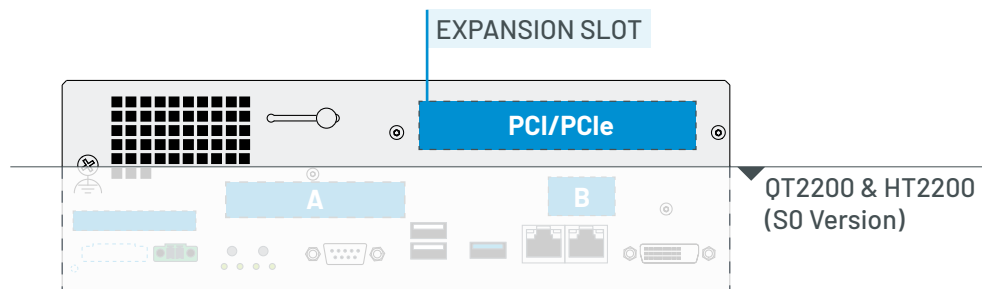
QT2200 & HT2200 - (SL Version)



QT2200 & HT2200 - (S0 Version)



QT2200 & HT2200 - (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 (DB9M)
- 2x USB 2.0 (Type-A)

POSITION B

- 1x Gigabit Ethernet (RJ45)
- 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)

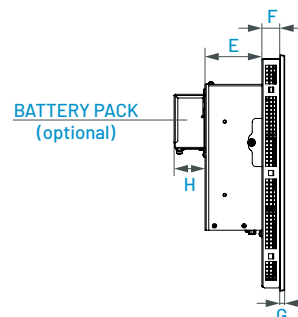
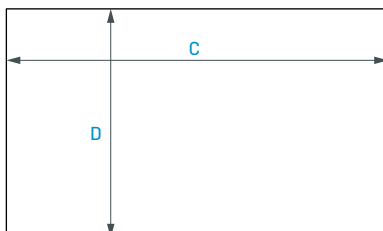
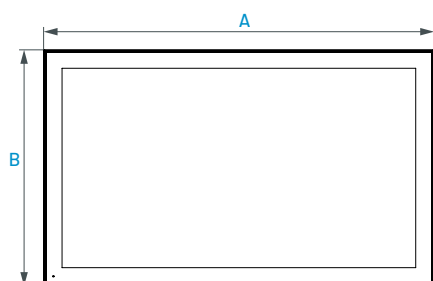
DIMENSIONS

FRONT VIEW

CUT-OUT

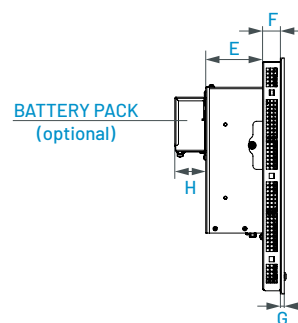
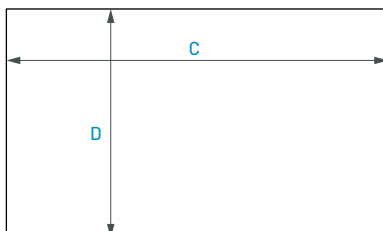
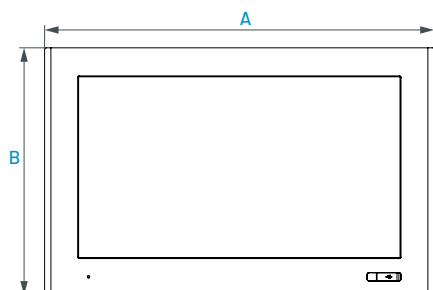
SIDE VIEW

QT2200 - ALU/TFM



LCD	A	B	C	D	E (SL/S0/S1)	F	G	H
12,1"W	308	210	301	203	29 / 56 / 77	17,5	4,5	41,8
15,6"W	395	245	388	238	29 / 56 / 77	25	6	41,8
18,5"W	461	282	453	274	29 / 56 / 77	25	6	41,8
21,5"W	528	319	520	312	29 / 56 / 77	25	6	41,8
24"W	584	352	577	344	29 / 56 / 77	25	6	41,8

HT2200 - ALU/TF



LCD	A	B	C	D	E (SL/S0/S1)	F	G	H
10,1"W	293	212	277	196	29 / - / -	19	5	41,8
10,4"	300	245	280	225	29 / 56 / 77	19	5	41,8
12,1"	335	270	315	250	29 / 56 / 77	19	5	41,8
12,1" W	331	234	313	218	29 / 56 / 77	21	5	41,8
15"	390	315	370	295	29 / 56 / 77	19	6	41,8
15,6"W	430	275	410	255	29 / 56 / 77	19	6	41,8
17"	455	355	435	335	29 / 56 / 77	21	6	41,8
18,5"W	500	320	480	300	29 / 56 / 77	21	6	41,8
19"	490	388	470	368	29 / 56 / 77	23	6	41,8
21,5"W	579	367	559	347	29 / 56 / 77	23	6	41,8
24"W	640	402	620	382	29 / 56 / 77	21,3	8	41,8

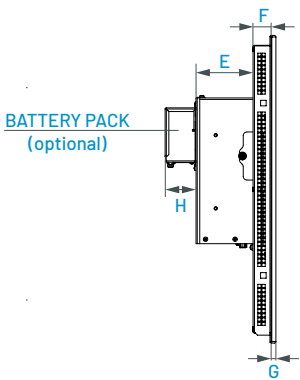
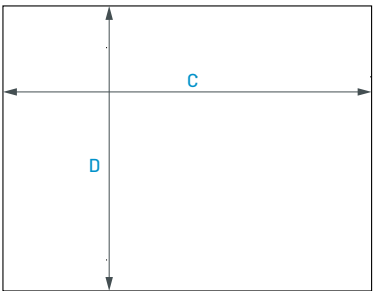
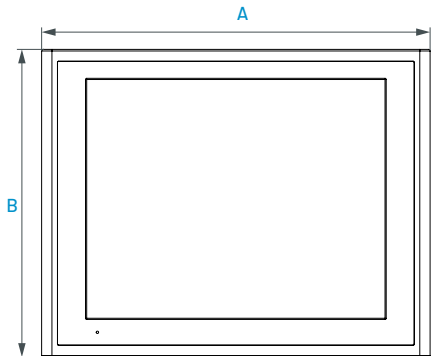
DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

HT2200 - TFX



LCD	A	B	C	D	E (SL/S0/S1)	F	G	H
12.1"	335	270	315	250	29 / 56 / 77	19	6	41,8
15.0"	398	315	370	295	29 / 56 / 77	19	6	41,8
17.0"	455	355	435	335	29 / 56 / 77	21	6	41,8
19.0"	490	388	470	368	29 / 56 / 77	23	6	41,8

QT2200 & HT2200

TECHNICAL DATA

		QT2200 -ALU	QT2200 -TFM	HT2200 -ALU	HT2200 -TF	HT2200 -TFX
LED BACKLIGHT TFT LCD		12.1" W - 1280x800 15.6" W - 1366x768 15.6" W - 1920x1080 18.5" W - 1366x768 18.5" W - 1920x1080 21.5" W - 1920x1080 24"W - 1920x1080		10.1" W - 1280x800 (only SL) 10.4" - 800x600 12.1" - 800x600 12.1" - 1024x768 12.1" W - 1280x800 15.0" - 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 15.0" - 1024x768 17" - 1280x1024 19" - 1280x1024
CUT-OUT		QT		HT		
FRONT USB		-		1x USB 2.0 (Type-A), protected		-
TOUCHSCREEN		Resistive 5 wires	P-CAP Multitouch	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	
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 skin pass steel				
PROCESSOR (soldered on-board)		Intel® Celeron® J1900 2.00GHz (2.42GHz Burst) • 64bit • 4 cores / 4 threads • 2MB L2 cache • 22nm				
CHIPSET		Intel® Bay Trail • Included into processor chip (SoC)				
VIDEO CONTROLLER		Intel® HD Graphics for Intel Atom® processor Z3700 series • 688MHz/854MHz				
WATCHDOG		Programmable time period				
TPM		Discrete TPM 2.0 module (optional)				
SYSTEM MEMORY RAM		1GB or 2GB or 4GB or 8GB (1x SODIMM DDR3L module)				
MASS STORAGE (SSD mSATA and SSD/HDD are alternative to each other)	Cfast	1x bootable CFast SATA II slot onboard with external access (up to 240GB)				
	SSD mSATA	1x onboard connector for direct insertion of SSD mSATA SATA II (up to 960GB)				
	SSD/HDD only S0/S1 versions	1x onboard connectors for SSDs/HDDs 2.5" SATA II with internal installation kit				
INTERFACES	LAN	2x Gigabit Ethernet (RJ45)				
	USB	2x USB 2.0 (Type-A) • 1x USB 3.0 (Type-A)				
	SERIAL	1x RS232 (DB9M)				
	VIDEO	1x DVI-I (Resolution up to 1920x1080 • VGA adapter included)				
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 (DB9M) 2x USB 2.0 (Type-A)				
	Position B (max 1)	1x Gigabit Ethernet (RJ45) 1x Wi-Fi module (IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 4.2) ⁱ and/or 1x Cellular module (worldwide LTE Cat 4, GSM/GPRS, UMTS/HSPA coverage) ^j				
EXPANSION SLOTS only S1 version		1x PCI half-length or 1x PCIe x1 half-length, on riser card, max 3W				
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated				
POWER SUPPLY (optional)	UPS Backside mounting not available for SL version	UPS with external battery pack (Pb • 12V/2,5Ah) (backside or separate mounting)				
	UPS + 256kB MRAM Backside mounting not available for SL version	UPS with external battery pack (Pb • 12V/2,5Ah) + 256kB MRAM (backside or separate mounting)				
	μUPS + 256kB MRAM	Supercapacitors μUPS + 256kB MRAM				
	ATX only S0/S1 versions	Kit for ATX mode power supply (push button, internal cable and connector for remote control)				

TECHNICAL DATA

	QT2200 -ALU	QT2200 -TFM	HT2200 -ALU	HT2200 -TF	HT2200 -TFX
BATTERY	1x CR2032 Internal access				
O.S. CERTIFIED	Microsoft Windows 7 Pro/Ultimate 32/64bit Microsoft Windows Embedded Standard 7E/7P 32/64 bit Microsoft Windows 10 IoT Enterprise 2016/2019 64bit (2019 version not compatible with CODESYS)				
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 UL 508	CE RoHS UKCA UL 508 ATEX zone 2/22 ²	CE RoHS UKCA UL 508		

1. Wi-Fi and Cellular modules cannot be used if CODESYS SoftPLC control software is installed on the system.
2. ATEX certification is ensured only without UPS, microUPS, power supply variants, UPS battery kit options and wireless modules

GALLERY



QT2200-ALU



QT2200-TFM



HT2200-ALU



HT2200-TF



HT2200-TFX