

# 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  $\mu$ UPS, with 512kB 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

 FT Optix™ OPTIONAL

 CODESYS OPTIONAL

 IP66K



(only TFX frontal)

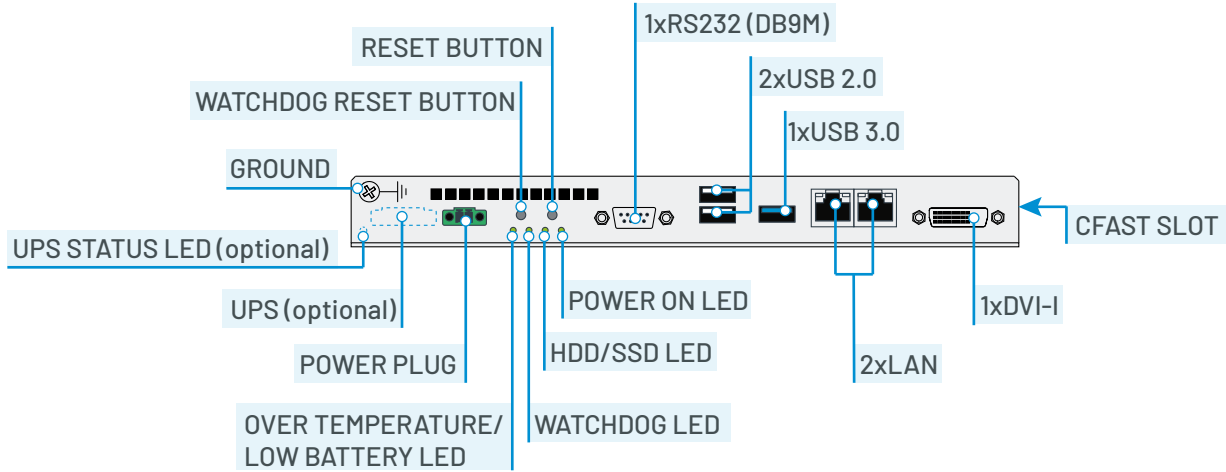
 

\*only TFM frontal

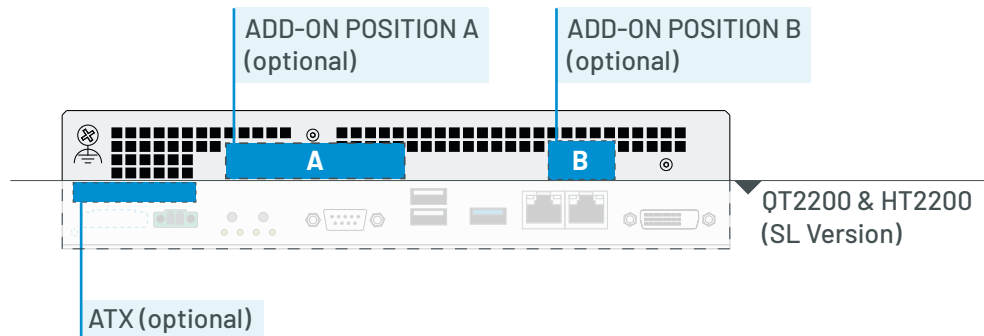
# QT2200 & HT2200

## I/O SHIELDS AND ADD-ON BOARDS

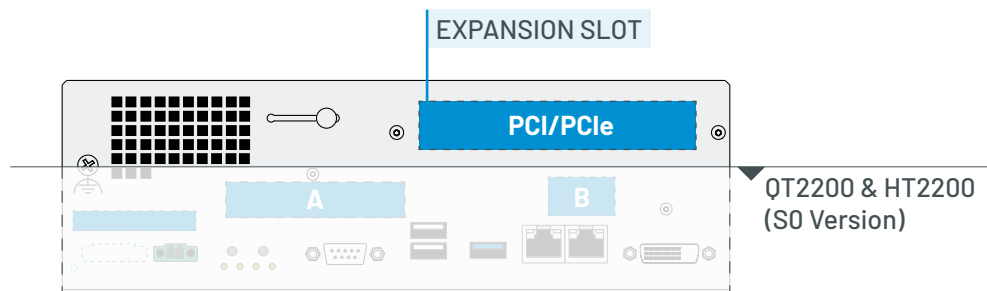
### QT2200 & HT2200 - (SL Version)



### 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)

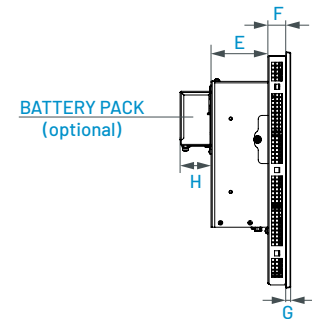
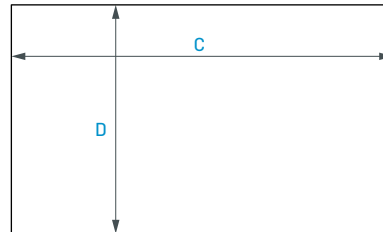
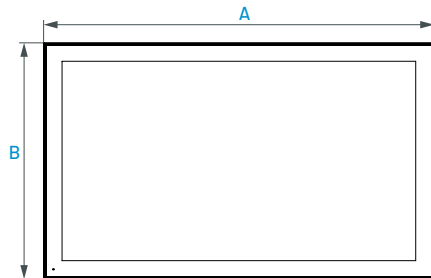
# DIMENSIONS

FRONT VIEW

CUT-OUT

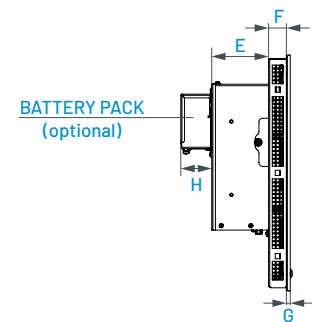
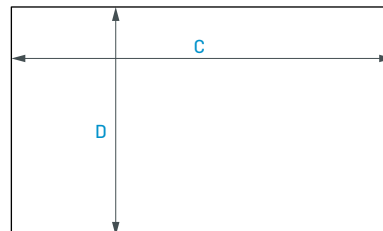
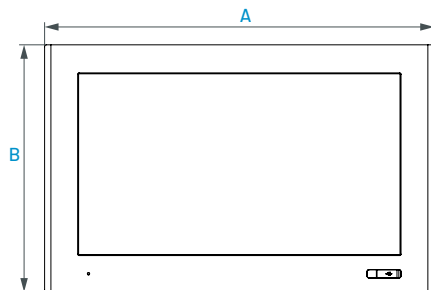
SIDE VIEW

## 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

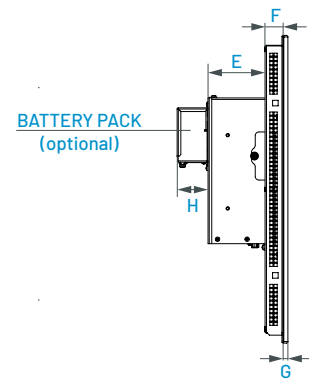
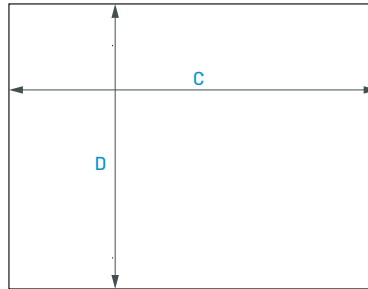
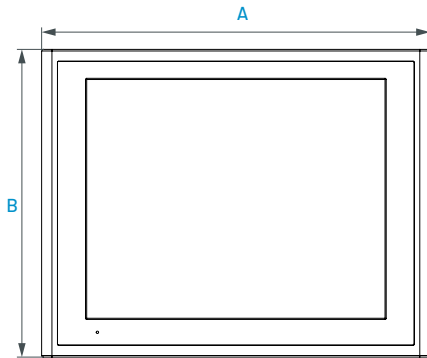
# DIMENSIONS

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
<b>LED BACKLIGHT TFT LCD</b>		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
	<b>CUT-OUT</b>	QT		HT		
<b>FRONT USB</b>		-		1x USB 2.0 (Type-A), protected		-
<b>TOUCHSCREEN</b>		Resistive 5 wires	P-CAP Multitouch	Resistive 5 wires		
<b>FRONT PANEL</b>	<b>Material</b>	Aluminum	True Flat Aluminum	Aluminum	True Flat Aluminum	True Flat Stainless Steel
	<b>ASEM Logo</b>	-		Adhesive label	Silk-screen printed	
<b>PROTECTION GRADE</b>	<b>IP rating</b>	IP65 - frontal				IP66K - frontal
	<b>NEMA rating</b>	UL Type 1, 4x (indoor only)		UL Type 1, 4x (indoor only) and 12		
<b>CASE</b>	<b>Installation</b>	Panel mounting				
	<b>Material</b>	Zinc-coated skin pass steel				
<b>PROCESSOR (soldered on-board)</b>	Intel® Celeron® J1900 2.00GHz (2.42GHz Burst) • 64bit • 4 cores / 4 threads • 2MB L2 cache • 22nm					
<b>CHIPSET</b>	Intel® Bay Trail • Included into processor chip (SoC)					
<b>VIDEO CONTROLLER</b>	Intel® HD Graphics for Intel Atom® processor Z3700 series • 688MHz/854MHz					
<b>WATCHDOG</b>	Programmable time period					
<b>TPM</b>	Discrete TPM 2.0 module (optional)					
<b>SYSTEM MEMORY RAM</b>	1GB or 2GB or 4GB or 8GB (1x SODIMM DDR3L module)					
<b>MASS STORAGE (SSD mSATA and SSD/HDD are alternative to each other)</b>	<b>Cfast</b>	1x bootable CFast SATA II slot onboard with external access (up to 240GB)				
	<b>SSD mSATA</b>	1x onboard connector for direct insertion of SSD mSATA SATA II (up to 960GB)				
	<b>SSD/HDD only S0/S1 versions</b>	1x onboard connectors for SSDs/HDDs 2.5" SATA II with internal installation kit				
<b>INTERFACES</b>	<b>LAN</b>	2x Gigabit Ethernet (RJ45)				
	<b>USB</b>	2x USB 2.0 (Type-A) • 1x USB 3.0 (Type-A)				
	<b>SERIAL</b>	1x RS232 (DB9M)				
	<b>VIDEO</b>	1x DVI-I (Resolution up to 1920x1080 • VGA adapter included)				
<b>ADD-ON INTERFACES (optional) not available for SL version</b>	<b>Position A (max 1)</b>	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)				
	<b>Position B (max 1)</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)				
<b>EXPANSION SLOTS</b>	<b>only S1 version</b>	1x PCI half-length or 1x PCIe x1 half-length, on riser card, max 3W				
<b>POWER SUPPLY INPUT</b>		24VDC (18÷32VDC) isolated				
<b>POWER SUPPLY (optional)</b>	<b>UPS Backside mounting not available for SL version</b>	UPS with external battery pack (Pb • 12V/2,5Ah) (backside or separate mounting)				
	<b>UPS + 512kB MRAM Backside mounting not available for SL version</b>	UPS with external battery pack (Pb • 12V/2,5Ah) + 512kB MRAM (backside or separate mounting)				
	<b>µUPS + 512kB MRAM</b>	Supercapacitors µUPS + 512kB MRAM				
	<b>ATX only S0/S1 versions</b>	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
<b>BATTERY</b>	1x CR2032 Internal access				
<b>O.S. CERTIFIED</b>	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)				
<b>OPERATING TEMPERATURE</b>	0°C ÷ 50°C 0°C ÷ 45°C (24x7 HDD or Intel® Core™ i7 processor) 5°C ÷ 45°C (Standard HDD)				
<b>STORAGE TEMPERATURE</b>	-10°C ÷ 60°C				
<b>OPERATING/STORAGE RELATIVE HUMIDITY</b>	20% ÷ 90% RH (non-condensing)				
<b>APPROVALS</b>	CE RoHS UKCA UL 508	CE RoHS UKCA UL 508 ATEX zone 2/2 <sup>2</sup>		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