

QT3400/3600 & HT3400/3600

Fanless panel IPCs with Intel® Skylake (xx3400) and Intel® Kaby Lake (xx3600) platforms



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® G3900E dual-core 2,40 GHz, Intel® Core™ i3-6100E dual-core 2,70 GHz, Intel® Core™ i5-6440EQ quad-core 2,70 GHz and Intel® Core™ i7-6820EQ quad-core 2,80 GHz processors of Skylake generation (only xx3400)
- Intel® Core™ i3-7100E dual-core 2,90 GHz, Intel® Core™ i5-7440EQ quad-core 2,70 GHz and Intel® Core™ i7-7820EQ quad-core 3,00 GHz processors of Kaby Lake generation (only xx3600)
- RAM up to 32GB
- Fanless IPCs
- Built-in UPS with external battery pack (optional)
- Built-in supercapacitors µUPS, with 256kB MRAM for retentive data management (optional)
- Available in S0, S1 and S2 version, with possibility to install additional interfaces, PCI/PCIe expansion slots and extractable drives slots for 2,5" SSDs/HDDs
- Available with additional RVL (Remote Video Link) interface for remotation of the DVI-D and USB 2.0 signals up to 100m (optional)
- 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**

RVL  **OPTIONAL**

IP66K



(only TFX frontal)

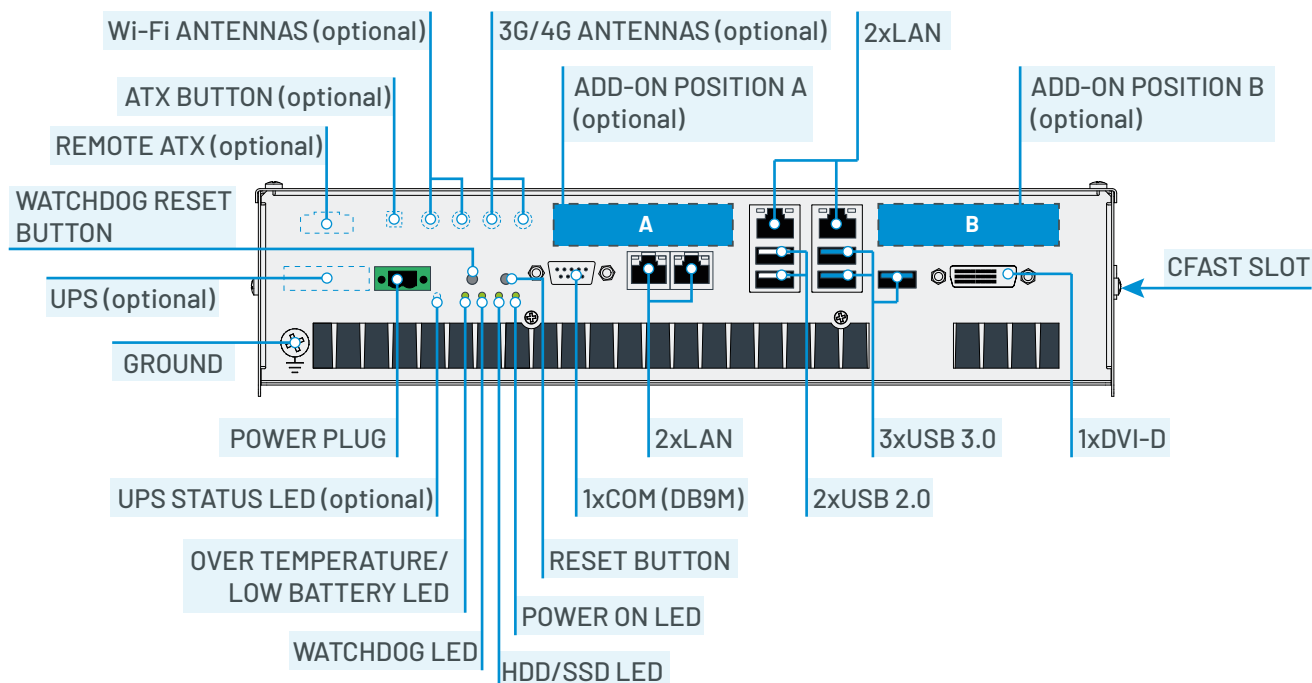


*only TFM frontal

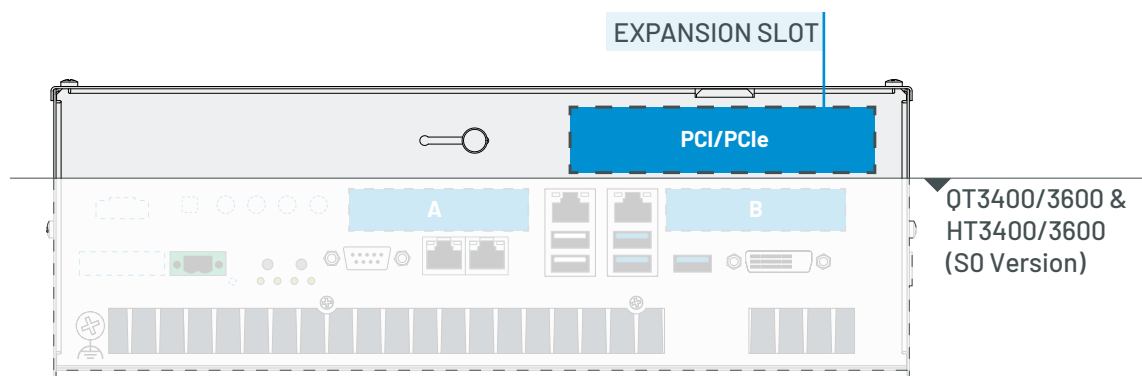
QT3400/3600 & HT3400/3600

I/O SHIELDS AND ADD-ON BOARDS

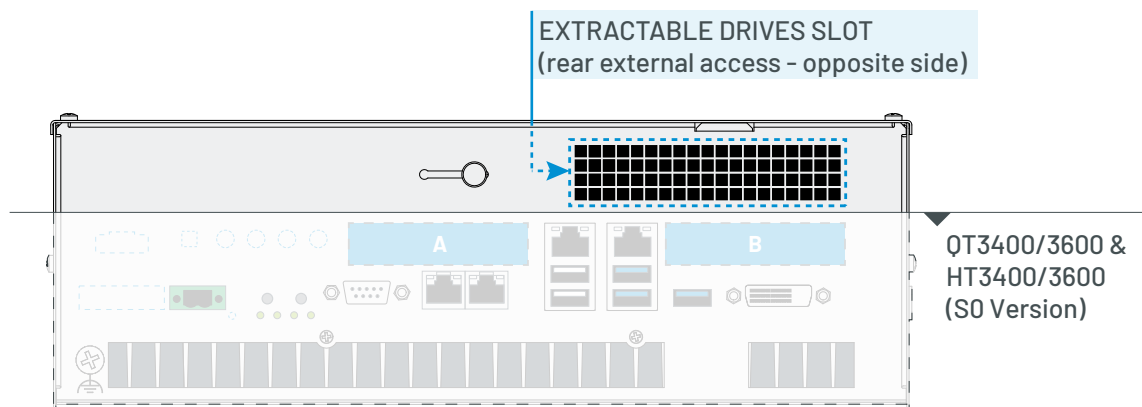
QT3400/3600 & HT3400/3600 - (S0 Version)



QT3400/3600 & HT3400/3600 - (S1 Version)



QT3400/3600 & HT3400/3600 - (D2 Version)



I/O SHIELDS AND ADD-ON BOARDS

POSITION A

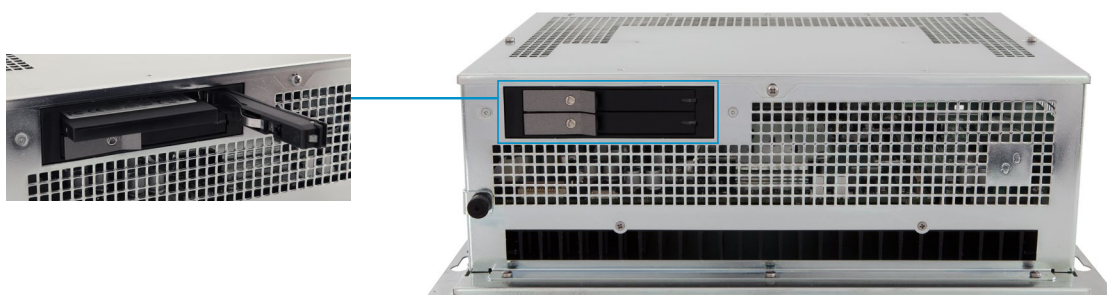
- 1x RS232/422/485 (DB15M) + 1x USB 2.0 (Type-A)
- 1x RS232/422/485 (DB15M) isolated + 1x USB 2.0 (Type-A)
- 2x RS232/422/485 (DB9M)
- 2x RS232/422/485 optoisolated (DB9M)
- 2x USB 2.0 (Type-A)

POSITION B

- 1x or 2x RJ45 connectors for RVL
- 2x DisplayPort++ V1.2
- 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)

DETAIL - EXTRACTABLE DRIVES SLOT

Extractable drives slot available only for D2 Version



GALLERY



QT3400/3600-ALU



QT3400/3600-TFM



HT3400/3600-ALU



HT3400/3600-TF



HT3400/3600-TFX

QT3400/3600 & HT3400/3600

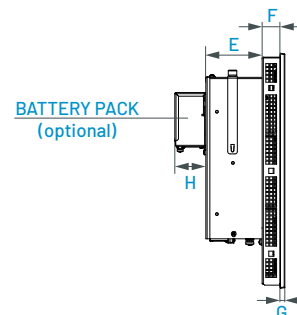
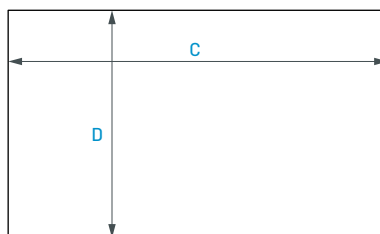
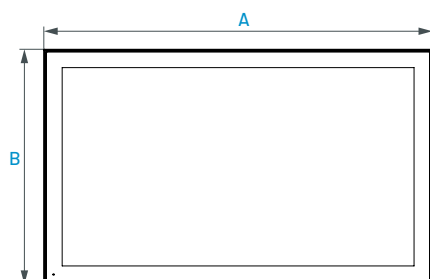
DIMENSIONS

FRONT VIEW

CUT-OUT

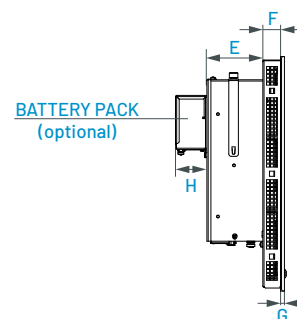
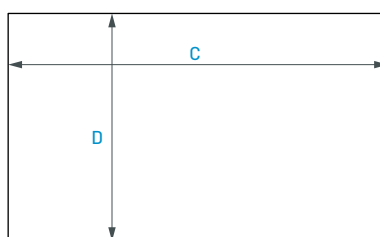
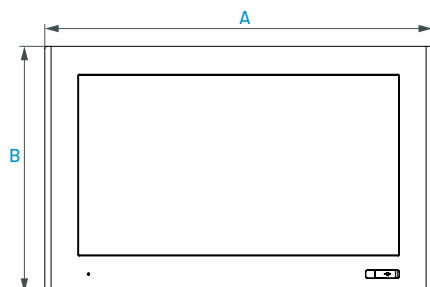
SIDE VIEW

QT3400/3600 - ALU/TFM



LCD	A	B	C	D	E (S0/S1/D2)	F	G (ALU/TFM)	H
15,6"W	395	245	388	238	70/100/100	25	4,5 / 6	41,8
18,5"W	461	282	453	274	70/100/100	25	6	41,8
21,5"W	528	319	520	312	70/100/100	25	6	41,8
24"W	584	352	577	344	70/100/100	25	6	41,8

HT3400/3600 - ALU/TF



LCD	A	B	C	D	E (S0/S1/D2)	F	G	H
12,1"	335	270	315	250	70/100/100	19	5	41,8
12,1" W	331	234	313	218	70/100/100	21	5	41,8
15"	390	315	370	295	70/100/100	19	6	41,8
15,6"W	430	275	410	255	70/100/100	19	6	41,8
17"	455	355	435	335	70/100/100	21	6	41,8
18,5"W	500	320	480	300	70/100/100	21	6	41,8
19"	490	388	470	368	70/100/100	23	6	41,8
21,5"W	579	367	559	347	70/100/100	23	6	41,8
24"W	640	402	620	382	70/100/100	21,3	8	41,8

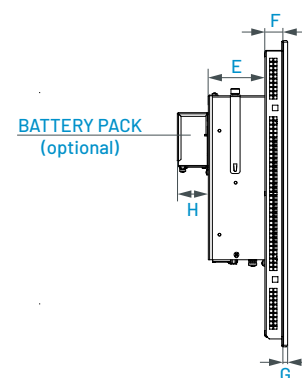
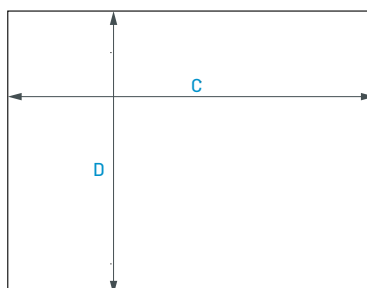
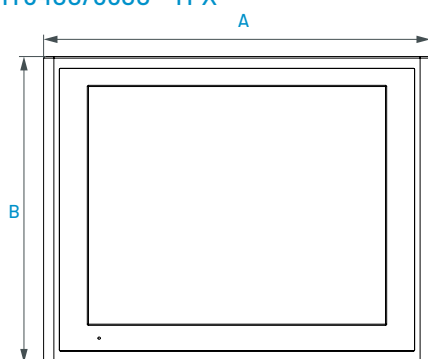
DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

HT3400/3600 - TFX



LCD	A	B	C	D	E (S0/S1/D2)	F	G	H
12.1"	335	270	315	250	70/100/100	19	6	41,8
15.0"	398	315	370	295	70/100/100	19	6	41,8
17.0"	455	355	435	335	70/100/100	21	6	41,8
19.0"	490	388	470	368	70/100/100	23	6	41,8

QT3400/3600 & HT3400/3600

COMPARISON TABLE

	QT3400/3600 & HT3400/3600		
	S0	S1	D2
ADD-ON INTERFACES (optional)	✓	✓	✓
EXPANSION SLOTS PCI/PCIe	X	1	X
INTERNAL INSTALLATION KIT for SSDs/HDDs 2,5" SATA III	1	1	X
EXTRACTABLE DRAWER KIT for SSDs/HDDs 2.5" SATA III	X	X	X
EXTRACTABLE DRIVES SLOT for SSDs/HDDs 2.5" SATA III	X	X	2

TECHNICAL DATA

		QT3400/3600 -ALU	QT3400/3600 -TFM	HT3400/3600 -ALU	HT3400/3600 -TF	HT3400/3600 -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 (not for D2 version) 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 15.0" - 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		
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)	xx3400	Intel® Celeron® G3900E 2.40GHz 64bit • 2 cores / 2 threads • 2MB Smart cache • 14nm Intel® Core™ i3-6100E 2.70GHz 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-6440EQ 2.70GHz (3.40GHz Turbo) 64bit • 4 cores / 4 threads • 6MB Smart cache • 14nm Intel® Core™ i7-6820EQ 2.80GHz (3.50GHz Turbo) 64bit • 4 cores / 8 threads • 8MB Smart cache • 14nm				
	xx3600	Intel® Core™ i3-7100E 2.90GHz 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-7440EQ 2.90GHz (3.60GHz Turbo) 64bit • 4 cores / 4 threads • 6MB Smart cache • 14nm Intel® Core™ i7-7820EQ 3.00GHz (3.70GHz Turbo) 64bit • 4 cores / 8 threads • 8MB Smart cache • 14nm				
CHIPSET	xx3400	Intel® HM170 PCH (Platform Controller Hub) with integrated RAID controller				
	xx3600	Intel® HM175 PCH (Platform Controller Hub) with integrated RAID controller				
	S2 version with 2x PCIe x4	-				
VIDEO CONTROLLER	xx3400	Intel® HD Graphics 510 integrated in Intel® Celeron® processor • 350MHz/950MHz Intel® HD Graphics 530 integrated in Intel® Core™ i3 processor • 350MHz/950MHz Intel® HD Graphics 530 integrated in Intel® Core™ i5 and i7 processors • 350MHz/1GHz				
	xx3600	Intel® HD Graphics 630 integrated in Intel® Core™ i3 processor • 350MHz/950MHz Intel® HD Graphics 630 integrated in Intel® Core™ i5 and i7 processors • 350MHz/1GHz				
WATCHDOG		Programmable time period				
TPM		Intel® PTT (TPM integrated) • Discrete TPM 2.0 module (optional)				
SYSTEM MEMORY RAM		4GB (1x 4GB SODIMM DDR4 module) 8GB (2x 4GB SODIMM DDR4 module) 16GB (2x 8GB SODIMM DDR4 module) 32GB (2x 16GB SODIMM DDR4 module)				
MASS STORAGE	Cfast	1x bootable CFast SATA III slot onboard with external access (up to 240GB)				
	SSD mSATA	1x onboard connector for direct insertion of SSD mSATA SATA III (up to 960 GB)				
	SSD/HDD	1x onboard connector for SSD/HDD 2,5" SATA III with internal installation kit				
EXTRACTABLE MASS STORAGE	only D1 version	-				
	only D2 version	2x extractable SSDs/HDDs 2.5" SATA III units				
RAID		only D2 version and BM S2 D0 version Raid 0, 1				

TECHNICAL DATA

		QT3400/3600 -ALU	QT3400/3600 -TFM	HT3400/3600 -ALU	HT3400/3600 -TF	HT3400/3600 -TFX
INTERFACES	LAN	4x Gigabit Ethernet (RJ45)				
	USB	3x USB 3.0 (Type-A) • 2x USB 2.0 (Type-A)				
	SERIAL	1x RS232 (DB9M)				
	VIDEO	1x DVI-D (Resolution up to 1920x1080)				
ADD-ON INTERFACES (optional)	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 or 2x RJ45 connectors for RVL 2x DisplayPort++ V1.2 1x Gigabit Ethernet (RJ45) 1x Wi-Fi module (IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 4.2) ¹ and/or 1x Cellular module (worldwide LTE Cat 4, GSM/GPRS, UMTS/HSPA coverage) ¹				
EXPANSION SLOTS	only S1 version	1x PCI half-length or 1x PCIe x4 half-length, on riser card, max 5W				
	only S2 version	-				
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated				
POWER SUPPLY (optional)	UPS	UPS with external battery pack (Pb • 12V/2.5Ah) (backside or separate mounting)				
	UPS + 256kB MRAM	-				
	μUPS + 256kB MRAM	Supercapacitors μUPS + 256kB MRAM				
	ATX	Kit for ATX mode power supply (push button, internal cable and connector for remote control)				
BATTERY		1x CR2032 Internal access				
O.S. CERTIFIED	xx3400	Microsoft Windows 10 IoT Enterprise 2019/2016 64 bit Microsoft Windows 7 Pro/Ultimate 32/64 bit Microsoft Windows Embedded Standard 7E/7P 32/64 bit				
	xx3600	Microsoft Windows 10 IoT Enterprise 2019/2016 64 bit				
OPERATING TEMPERATURE	without forced ventilation	0°C ÷ 50°C 0°C ÷ 45°C (24x7 HDD or Intel® Core™ i7 processor) 5°C ÷ 45°C (Standard HDD)				
	with forced ventilation (only S2 version)	-				
STORAGE TEMPERATURE		-10°C ÷ 60°C				
OPERATING/STORAGE RELATIVE HUMIDITY		20% ÷ 90% RH (non-condensing)				
FORCED VENTILATION (optional)		-				
APPROVALS		CE RoHS UKCA cULus Listed	CE RoHS UKCA cULus Listed ATEX zone 2/22 ²	CE RoHS UKCA cULus Listed		

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.
3. MicroUPS+256kB MRAM is not compatible with 2x HDD/SSD option for BM3400/3600 S0 D2