

QT5400/5600 & HT5400/5600

Highly expandable panel IPCs with Intel® Skylake (xx5400) and Intel® Kaby Lake (xx5600) platforms



HIGHLIGHTS

- TFT LCDs in 15" in 4:3 aspect ratio, 17" and 19" in 5:4 aspect ratio and 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® Core™ i3-6100 dual-core 3,70 GHz, Intel® Core™ i5-6500 quad-core 3,20 GHz and Intel® Core™ i7-6700 quad-core 3,40 GHz processors of Skylake generation (only xx5400)
- Intel® Celeron® G3930E dual-core 2,90 GHz, Intel® Core™ i3-7101E dual-core 3,90 GHz, Intel® Core™ i5-7500 quad-core 3,40 GHz and Intel® Core™ i7-7700 quad-core 3,60 GHz processors of Kaby Lake generation (only xx5600)
- RAM up to 32GB
- Available in S0 version with the possibility to install additional interfaces, S1 version with one PCIe expansion slot and S3 version with three PCIe expansion slots
- Available with additional RVL interface for remotation of the DVI-D and USB 2.0 signals up to 100m (optional)
- Available with 115/230VAC power supply (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**

 **FT Optix™ OPTIONAL**

RVL  **OPTIONAL**

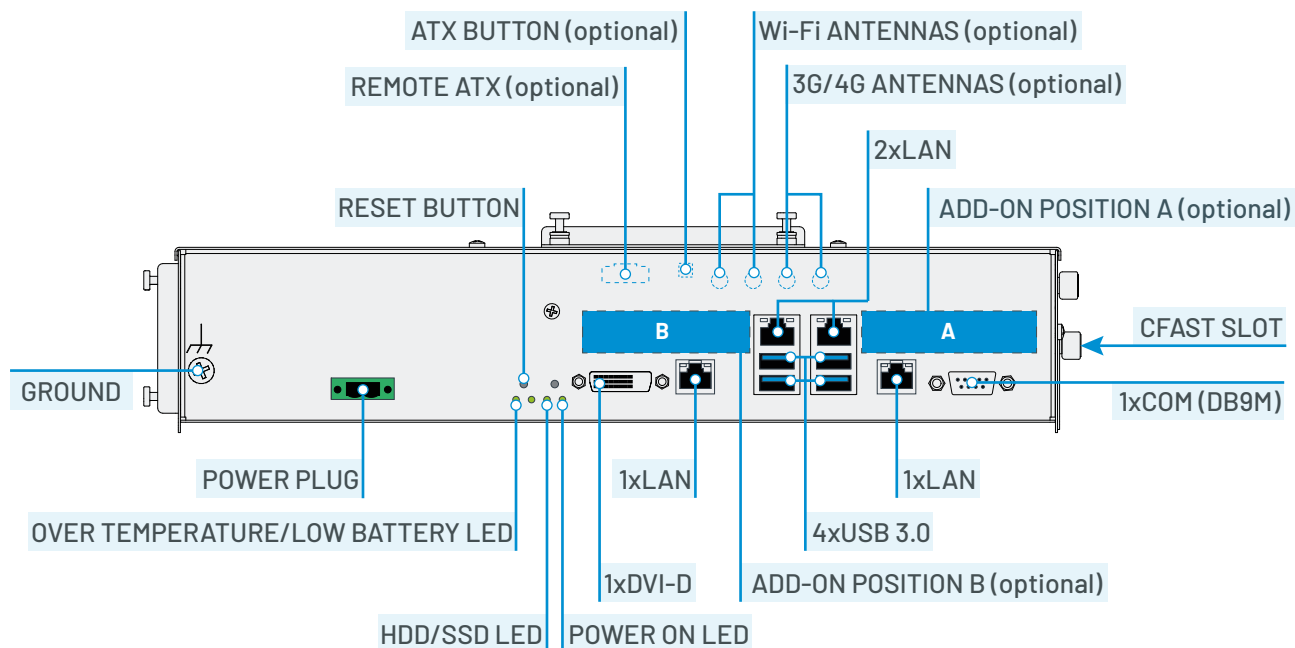


A ROCKWELL AUTOMATION COMPANY

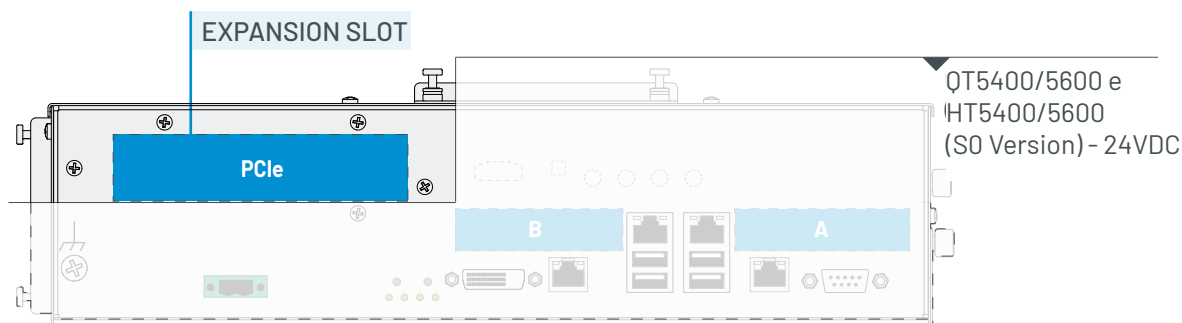
QT5400/5600 & HT5400/5600

I/O SHIELDS AND ADD-ON BOARDS

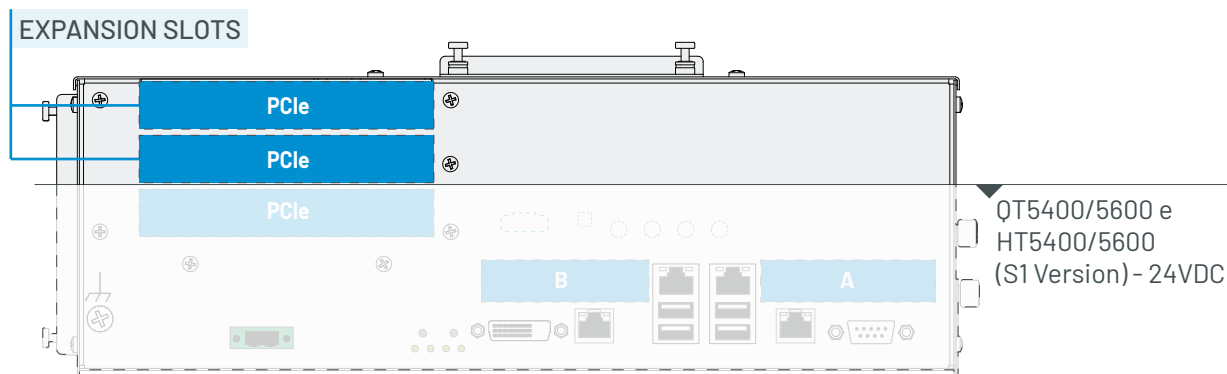
QT5400/5600 e HT5400/5600 - (S0 Version) - 24VDC



QT5400/5600 e HT5400/5600 - (S1 Version) - 24VDC

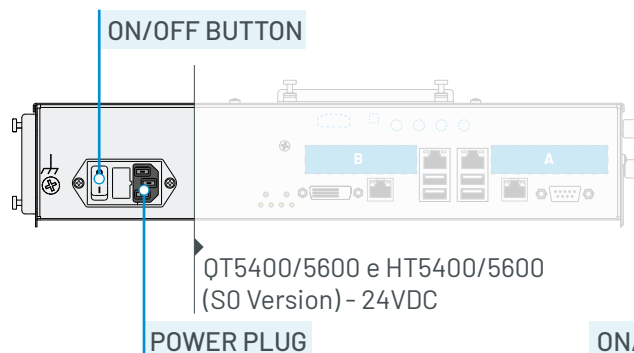


QT5400/5600 e HT5400/5600 - (S3 Version) - 24VDC

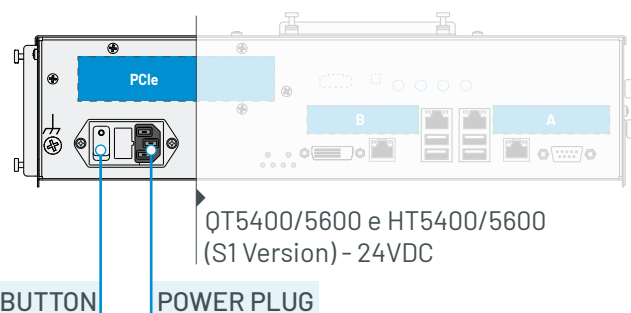


I/O SHIELDS AND ADD-ON BOARDS

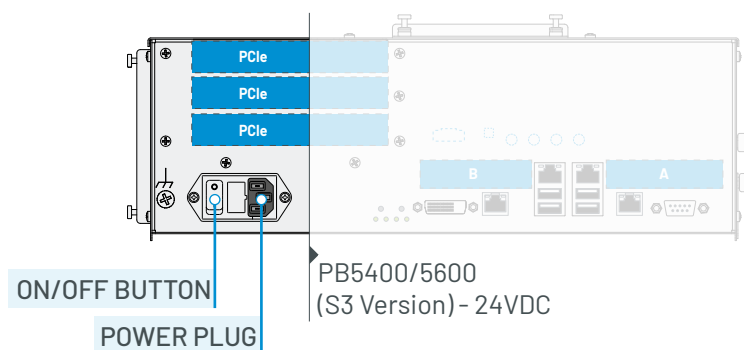
QT5400/5600 e HT5400/5600
(S0 Version) - 230VAC



QT5400/5600 e HT5400/5600
(S1 Version) - 230VAC



QT5400/5600 e HT5400/5600
(S3 Version) - 230VAC



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

QT5400/5600 & HT5400/5600

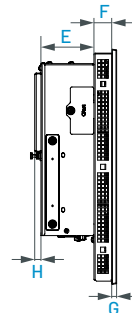
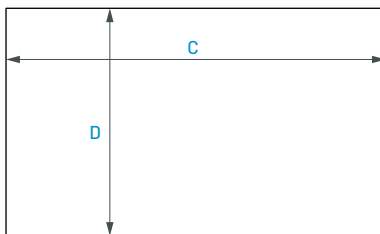
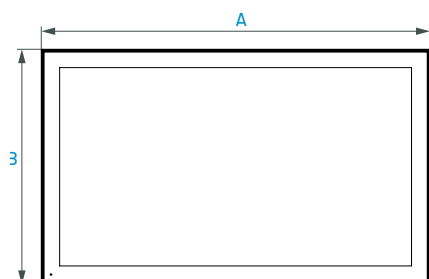
DIMENSIONS

FRONT VIEW

CUT-OUT

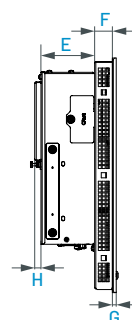
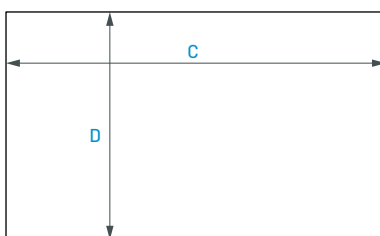
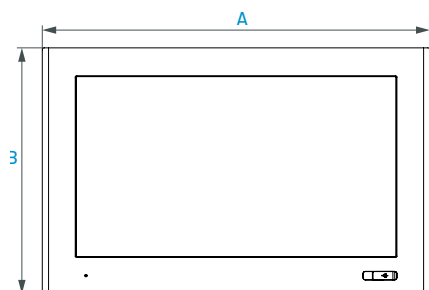
SIDE VIEW

QT5400/5600 - ALU/TFM



LCD	A	B	C	D	E (S0/S1/S3)	F	G (ALU/TFM)	H
15,6"W	395	245	388	238	68/84/114	25	4,5 / 6	8
18,5"W	461	282	453	274	68/84/114	25	6	8
21,5"W	528	319	520	312	68/84/114	25	6	8
24"W	584	352	577	344	68/84/114	25	6	8

HT5400/5600 - ALU/TF



LCD	A	B	C	D	E (S0/S1/S3)	F	G	H
15"	390	315	370	295	68/84/114	19	6	8
15,6"W	430	275	410	255	68/84/114	19	6	8
17"	455	355	435	335	68/84/114	21	6	8
18,5"W	500	320	480	300	68/84/114	21	6	8
19"	490	388	470	368	68/84/114	23	6	8
21,5"W	579	367	559	347	68/84/114	23	6	8
24"W	640	402	620	382	68/84/114	21.3	8	8

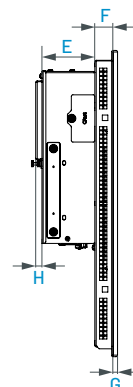
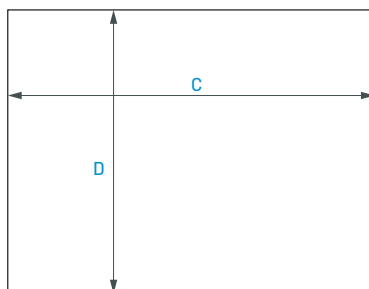
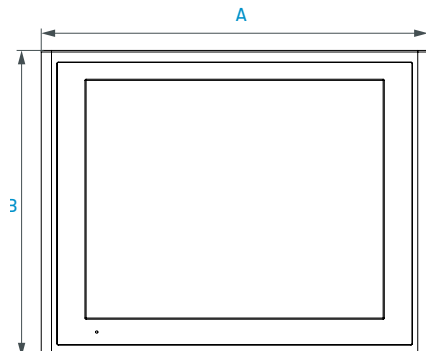
DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

HT5400/5600 - TFX



LCD	A	B	C	D	E (S0/S1/S3)	F	G	H
15.0"	398	315	370	295	68/84/114	19	6	8
17.0"	455	355	435	335	68/84/114	21	6	8
19.0"	490	388	470	368	68/84/114	23	6	8

QT5400/5600 & HT5400/5600

TECHNICAL DATA

		QT5400/5600 -ALU	QT5400/5600 -TFM	HT5400/5600 -ALU	HT5400/5600 -TF	HT5400/5600 -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		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		15" - 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)	xx5400	Intel® Core™ i3-6100 3.70GHz 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-6500 3.20GHz (3.60GHz Turbo) 64bit • 4 cores / 4 threads • 6MB Smart cache • 14nm Intel® Core™ i7-6700 3.40GHz (4.00GHz Turbo) 64bit • 4 cores / 8 threads • 8MB Smart cache • 14nm				
	xx5600	Intel® Celeron® G3930E 2.90Ghz 64bit • 2 cores / 2 threads • 2MB Smart cache • 14nm Intel® Core™ i3-7101E 3.90Ghz 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-7500 3.40GHz (3.80GHz Turbo) 64bit • 4 cores / 4 threads • 6MB Smart cache • 14nm Intel® Core™ i7-7700 3.60Ghz (4.20GHz Turbo) 64bit • 4 cores / 8 threads • 8MB Smart cache • 14nm				
CHIPSET		Intel® C236 PCH (Platform Controller Hub) with integrated RAID controller				
VIDEO CONTROLLER	xx5400	Intel® HD Graphics 530 integrated in Intel® Core® i3 and i5 processors • 350MHz/1.05GHz Intel® HD Graphics 530 integrated in Intel® Core® i7 processor • 350MHz/1.15GHz				
	xx5600	Intel® HD Graphics 610 integrated in Intel® Celeron® processor • 350MHz/1GHz Intel® HD Graphics 630 integrated in Intel® Core® i3 and i5 processors • 350MHz/1.10GHz Intel® HD Graphics 630 integrated in Intel® Core® i7 processor • 350MHz/1.15GHz				
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 M.2	1x onboard connector for direct insertion of M.2 2280 NVme PCIe x4 SSD (up to 512GB) or M.2 2242 SATA III SSD (up to 480GB)				
	SSD/HDD	2x onboard connectors for SSDs/HDDs 2.5" SATA III with internal installation kit				
EXTRACTABLE MASS STORAGE	S0/S1/S3 versions	1x extractable SSD/HDD 2.5" SATA III unit				
	only S1/S3 versions	2x extractable SSDs/HDDs 2.5" SATA III units				
RAID		Raid 0, 1				
INTERFACES	LAN	4x Gigabit Ethernet (RJ45)				
	USB	4x USB 3.0 (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 Gigabit Ethernet (RJ45) 1x or 2x RJ45 connectors for RVL 2x DisplayPort++ V1.2 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

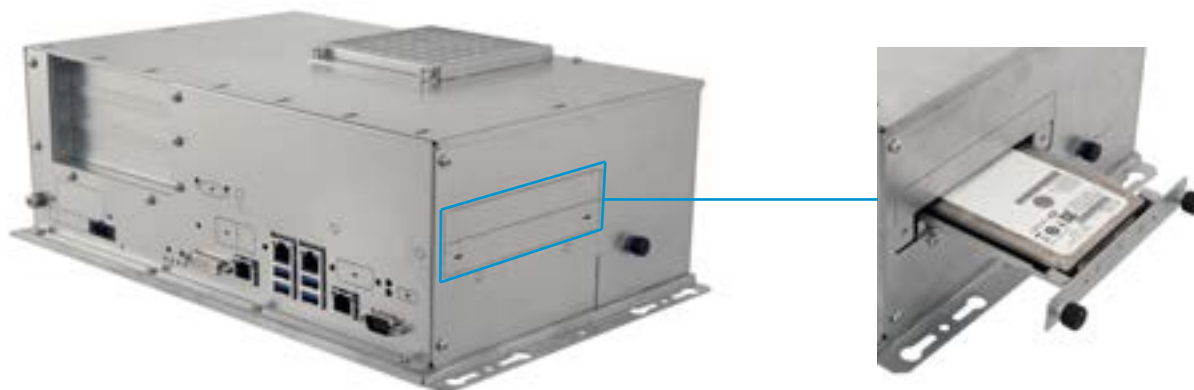
		QT5400/5600 -ALU	QT5400/5600 -TFM	HT5400/5600 -ALU	HT5400/5600 -TF	HT5400/5600 -TFX
EXPANSION SLOTS	only S1 version	1x PCIe x16 half-length, on riser card, max 75W				
	only S3 version	1x PCIe x16 half-length + 1xPCIe x4 half-length, on riser card, max 75W 1x PCIe x16 half-length + 1xPCIe x4 half-length + 1xPCIe x1 half-length, on riser card, max 80W 2x PCIe x8 half-length + 1x PCIe x4 half-length, on riser card, max 85W 3x PCI half-length, on riser card, max 30W 2x PCI half-length + 1x PCIe x4 half-length, on riser card, max 35W				
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated				
	optional	115V/230VAC (85÷264VAC) isolated, autoranging				
POWER SUPPLY (optional)	ATX	Kit for ATX mode power supply (push button, internal cable and connector for remote control)				
BATTERY		1x CR2032 Internal access				
O.S. CERTIFIED	xx5400	Microsoft Windows 10 IoT Enterprise 2019 64 bit Microsoft Windows 7 Pro/Ultimate 64 bit Microsoft Windows Embedded Standard 7E/7P 64 bit Microsoft Windows Server Embedded Standard 2019 R2 64 bit				
	xx5600	Microsoft Windows 10 IoT Enterprise 2019 64 bit Microsoft Windows Server Embedded Standard 2019 R2 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 cULus Listed				

RISER CARD CONSUMPTION TABLE

XX5400/5600 - RISER CARD	PCIe x16	PCIe x8	PCIe x4	PCIe x1	PCI	Maximum power consumption
1x PCIe x16 half-length	1 (75W)	-	-	-	-	75W
1x PCIe x16 half-length + 1xPCIe x4 half-length	1 (60W)	-	1 (15W)	-	-	75W
1x PCIe x16 half-length + 1xPCIe x4 half-length + 1xPCIe x1 half-length	1 (60W)	-	1 (15W)	1 (5W)	-	80W
2x PCIe x8 half-length + 1x PCIe x4 half-length	-	2 (70W)	1 (15W)	-	-	85W
3x PCI half-length	-	-	-	-	3 (30W)	30W
2x PCI half-length + 1x PCIe x4 half-length	-	-	1 (15W)	-	2 (20W)	35W

DETAIL – EXTRACTABLE DRIVES SLOT

Extractable drives slot available only for S1 and S3 versions



GALLERY



QT5400/5600-ALU



QT5400/5600-TFM



HT5400/5600-ALU



HT5400/5600-TF



HT5400/5600-TFX