



MODEL. QY-P8000 Series

Fanless Design Industrial Panel PC



Introduction

QY-P8000 Series Industrial Panel PC คอมพิวเตอร์อุตสาหกรรมแบบพาเนลรุ่นใหม่ มาพร้อมการออกแบบโมดูลาร์ เลือกได้ทั้งแบบจอสัมผัส Capacitive/Resistive และฝาหลังขึ้นรูป QY-P8000 Series มีการออกแบบที่ทนต่อการรบกวนสูงและมีความสามารถในการขยายที่หลากหลาย เพื่อตอบสนองการใช้งานในสภาพแวดล้อมอุตสาหกรรมที่สมบูรณ์แบบ มาพร้อมคุณสมบัติป้องกันฝุ่น การกระจายความร้อนที่ดี ทนต่อการสั่นสะเทือน และมีประสิทธิภาพ EMC สูง ทำให้มีความน่าเชื่อถือของระบบและการใช้งานได้หลากหลายสภาพแวดล้อม



Specification

Mother Board Specification

MODEL	QY-P8000 Series				
Size	7.0-10.1 inch		10.4-32.0 inch		
CPU	J1900 i5 Gen 4	N95/N100/J6412 i3: Gen 7 i5: Gen 6/7/8/10 i7: Gen 7/10	J1900 i3 Gen 4 i5 Gen 4 i7 Gen 4	J6412 i3 Gen 7/8/10 i5 Gen 7/8/10 i7 Gen 7/8/10	N95/N100 i3-Gen12/13 i5-Gen12/13 i7-Gen12/13
Memory	1*DDR3 RAM Slot, Up to 8GB	1*DDR4 RAM Slot, Up to 16GB	2*DDR3 RAM Slots, Up to 16GB	2*DDR4 RAM Slots, Up to 32GB	2*DDR4 RAM Slots, Up to 64GB
Storage	1*MSATA SSD Slot		1*MSATA SSD Slot 1*SATA SSD Slot		1*M.2 NVME SSD Slot
Display	None		1*HDMI: Resolution up to 4096*2106@60Hz		
Expansion	1*Mini PCIE Slot		1*Mini PCIE Slot		2*M.2 Slots
	Support 4G and WIFI module		Support 4G/5G and WIFI Module		
Ethernet	2*Intel i210v LAN Chip (10/100/1000 Mbps, RJ-45 Type)		2*Intel LAN Chip (10 / 100 / 1000 Mbps, RJ-45 Type)		
USB	4*USB 3.0 (Type-A)		4*USB 3.0 (Type-A) / 1*USB 2.0 (Type-A, Built-in)		
COM	2*RS-232 / 485 (DB9 type) 1*RS-232 / 485 (DB9 type) 4*RS-232 (Phoenix Terminal type)		2*RS-232 / 422 / 485 (DB9 type) 4*RS-232 (DB9 type)		
Audio	1*Line-Out		1*Line-Out		
Daughter Card	None		Support expansion more I/O interfaces and functional slots		

Note:

- [1]: The maximum memory capacity and the maximum capacity per strip supported by this motherboard depend on the CPU.
 [2]: The maximum resolution and frame rate of the display interface output depends on the CPU.



Screen Specification

MODEL	Screen Size	Resolution	Brightness	Contrast	Largest Colorful	Touch Screen Type	Light Transmittance	Touch Life
QY-P8070	7.0 inch	800x480	350nits 1000nit (Option)	800:1	16M	Capacitive	More than 95%	50 million times
						Resistive		35 million times
QY-P8080	8.0 inch	800x600				Capacitive		50 million times
						Resistive		35 million times
QY-P8101	10.1 inch	1280x800				Capacitive		50 million times
						Resistive		35 million times
QY-P8104	10.4 inch	1024x768				Capacitive		50 million times
						Resistive		35 million times
QY-P8121	12.1 inch	1024x768				Capacitive		50 million times
						Resistive		35 million times
QY-P8133	13.3 inch	1920x1080				Capacitive		50 million times
						Resistive		35 million times
QY-P8150	15.0 inch	1024x768				Capacitive		50 million times
						Resistive		35 million times
QY-P8156	15.6 inch	1920x1080				Capacitive		50 million times
						Resistive		35 million times
QY-P8170	17.0 inch	1280x1024				Capacitive		50 million times
						Resistive		35 million times
QY-P8173	17.3 inch	1920x1080				Capacitive		50 million times
						Resistive		35 million times
QY-P8185	18.5 inch	1366x768				Capacitive		50 million times
QY-P8190	19.0 inch	1280x1024				Capacitive		50 million times
						Resistive		35 million times
QY-P8215	21.5 inch	1920x1080				Capacitive		50 million times
						Resistive		35 million times
QY-P8238	23.8 inch	1920x1080				Capacitive		50 million times
QY-P8270	27.0 inch	1920x1080				Capacitive		50 million times
QY-P8320	32.0 inch	1920x1080				Capacitive		50 million times

Note:

[1] Response Time : <5ms

[2] Protection : Front Panel IP65 Water Proof

[3] Touch Hardness : 6 Mohs (7 to 10.1) / 7 Mohs (10.4 to 32.0)



Device Specification

MODEL	Power Input			Installation			Size
	DC 12V (DC 9-36V)	Support Auto-Start	2 Pin Phoenix Terminal (type DC)	Desktop	Embedded	Wall Mount	
QY-P8070	DC 12V (DC 9-36V)	✓	✓	✓	✓	✓	212mm*144mm*55mm
QY-P8080	DC 12V (DC 9-36V)	✓	✓	✓	✓	✓	224mm*178mm*53.5mm
QY-P8101	DC 12V (DC 9-36V)	✓	✓	✓	✓	✓	258mm*172mm*53.5mm
QY-P8104	DC 9-36V	✓	✓	✓	✓	✓	271.46mm*219.96mm*67mm
QY-P8121	DC 9-36V	✓	✓	✓	✓	✓	298.3mm*238.3mm*68mm
QY-P8133	DC 9-36V	✓	✓	✓	✓	✓	343.5mm*214mm*68mm
QY-P8150	DC 9-36V	✓	✓	✓	✓	✓	370mm*290mm*68mm
QY-P8156	DC 9-36V	✓	✓	✓	✓	✓	390mm*247.6mm*68mm
QY-P8170	DC 9-36V	✓	✓	✓	✓	✓	400mm*333mm*68mm
QY-P8173	DC 9-36V	✓	✓	✓	✓	✓	435mm*265.5mm*71mm
QY-P8185	DC 9-36V	✓	✓	✓	✓	✓	463.5mm*287.5mm*68mm
QY-P8190	DC 9-36V	✓	✓	✓	✓	✓	435.5mm*360.5mm*68mm
QY-P8215	DC 9-36V	✓	✓	✓	✓	✓	531mm*327mm*68mm
QY-P8238	DC 9-36V	✓	✓	✓	✓	✓	584mm*355.5mm*70mm
QY-P8270	DC 9-36V	✓	✓	✓	✗	✓	652mm*390mm*75.8mm
QY-P8320	DC 9-36V	✓	✓	✓	✗	✓	749.8mm*446.7mm*75.8mm

Note:

- [1] Working Temperature : -20°C - 70°C, Support 24/7 Working
- [2] Storage Temperature : -30°C - 70°C
- [3] Humidity : 90% (20±50°C)
- [4] Structure : Fully Enclosed Aluminum Alloy Material
- [5] Heat Dissipation : Fanless Design, Conduction Heat Dissipation
- [6] OS : Windows and Linux



Optional Specification

Screen	Brightness	Optional 1000 nits LED screen
		Optional brightness auto adjustment function
	Anti-Glare	Optional
	Camera	Optional 200w or 500w camera (Built-in front panel)
	Full Lamination	Optional

Daughter Card Specification

COM Port-2	2*RS-232 / 485 (DB9 type)
COM Port-6	4*RS-232 / 485+2*RS-232 (Phoenix terminal type)
Ethernet Port-2	2*Intel i211V LAN Chip (RJ-45 type)
Ethernet Port-4	4*Intel i211V LAN Chip (RJ-45 type, POE function optional)
10G Ethernet Port-2	2*10Gbps Ethernet Ports
USB Port-4	4*USB 3.0 (Type-A)
GPIO Port-14	14 ports GPIO, 7*GPI+7*GPO, 0-3.3V (Phoenix terminal type)
Mini PCIE Slot-2	2*Mini PCIE slots, Support 4G and WIFI module
M.2 Slot-1	1*M.2 Key-B slot, Support 5G module
M.2 NVME SSD Slot-1	1*M.2 NVME SSD slot
SATA SSD Slot-1	1*SATA 3.0 SSD Slot, Support RAID 1
CAN Port-2	2*CAN interfaces (Phoenix terminal type)
UPS battery	1.2AH or 4.8AH
DIDO Port-16	16 ports DIDO, 8*DI+8*DO, 24V, Isolation (Phoenix terminal type) Comes with 4*RS-485 COM ports (Phoenix terminal type)

Note:

[1] Models QY-P8070 to QY-P8101 (7–10.1”) do not have a daughter card slot, while models QY-P8104 to QY-P8320 (10.4–32”) are equipped with a slot and can support additional daughter cards.





6-way COM



2.5-inch SSD



UPS power supply



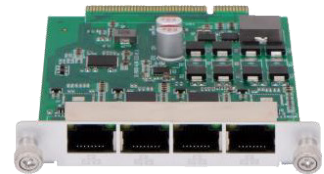
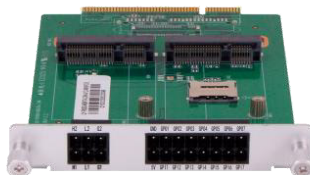
4-channel USB



2-channel COM



14 GPIO channels

Dual Gigabit
Ethernet portsFour Gigabit
Ethernet port

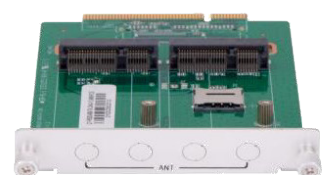
CAN+GPIO



DIDO



M.2 SSD



4G WIFI GPS

Ordering Information

MODEL	QY-P8000 Series										
Size	7.0-10.1 inch				10.4-32.0 inch						
CPU	J1900 4th	6th / 7th 8th / 10th	N95 N100	J6412	J1900	4th	J6412	7th 8th	10th	N95 N100	12th 13th
LAN	2				2						
USB	4				4						
COM	2*RS-232/422/485 + 4*RS-232				2*RS-232/422/485 + 4*RS-232						
RAM	1*DDR 3 Up to 8GB	1*DDR 4 Up to 16GB			1*DDR 3 Up to 8GB	2*DDR 3 Up to 16GB	2*DDR 4 Up to 32GB	2*DDR 4 Up to 64GB	1*DDR 4 Up to 16GB	2*DDR 4 Up to 64GB	
Display	None			1*HDMI	1*HDMI						
SSD	1*MSATA				1*MSATA 1*SATA				1*M.2 NVME		
Expansion	1*Mini PCIE			1*Mini PCIE 1*M.2	1*Mini PCIE				1*M.2 1*Mini PCIE	2*M.2	
Power	DC 12V		DC 9-36V	DC 12V	DC 9-36V						



CPU Information

CPU	Core	Threads	Frequency	Cache	Graphics
N95	4	4	3.40GHz	6 MB	UHD Graphics
N100	4	4	3.40GHz	6 MB	UHD Graphics
J1900	4	4	2.00-2.42GHz	2MB	HD Graphics
J6412	4	4	2.00-2.60GHz	1.5 MB	UHD Graphics
i3-4010U	2	4	1.70GHz	3 MB	HD Graphics 4400
i5-4260U	2	4	1.40-2.70GHz	3 MB	HD Graphics 5000
i7-4650U	2	4	1.70-3.30GHz	4 MB	HD Graphics 5000
i5-6200U	2	4	2.30-2.80GHz	3 MB	HD Graphics 520
i3-7100U	2	4	2.40GHz	3 MB	HD Graphics 620
i5-7200U	2	4	2.50-3.10GHz	3 MB	HD Graphics 620
i7-7500U	2	4	2.70-3.50GHz	4 MB	HD Graphics 620
i3-8130U	2	4	2.20-3.40GHz	4 MB	UHD Graphics 620
i5-8250U	4	8	1.60-3.40GHz	6 MB	UHD Graphics 620
i5-8260U	4	8	1.60-3.90GHz	6 MB	UHD Graphics 620
i7-8550U	4	8	1.80-4.00GHz	8 MB	UHD Graphics 620
i3-10110U	2	4	2.10-4.10GHz	4 MB	UHD Graphics
i5-10210U	4	8	1.60-4.20GHz	6 MB	UHD Graphics
i5-10310U	4	8	1.70-4.40GHz	6 MB	UHD Graphics
i7-10610U	4	8	1.80-4.90GHz	8 MB	UHD Graphics
i7-10710U	6	12	1.10-4.70GHz	12 MB	UHD Graphics
i3-1215U	6	8	1.20-4.40GHz	10 MB	UHD Graphics
i5-1235U	10	12	1.30-4.40GHz	12 MB	Iris Xe Graphics
i7-1255U	10	12	1.70-4.70GHz	12 MB	Iris Xe Graphics



CPU	Core	Threads	Frequency	Cache	Graphics
i7-1270P	12	16	2.20-4.80GHz	18 MB	Iris Xe Graphics
i3-1315U	6	8	1.20-4.50GHz	10 MB	UHD Graphics
i5-1335U	10	12	1.30-4.60GHz	12 MB	Iris Xe Graphics
i7-1355U	10	12	1.70-5.00GHz	12 MB	Iris Xe Graphics

System Information

CPU	Specification
J1900	Windows 7 / 10 and Linux
4th / 6th / 7th	
J6412 / N95 / N100	Windows 10 / 11 and Linux
8th / 10th / 12th / 13th	

Fittings Information

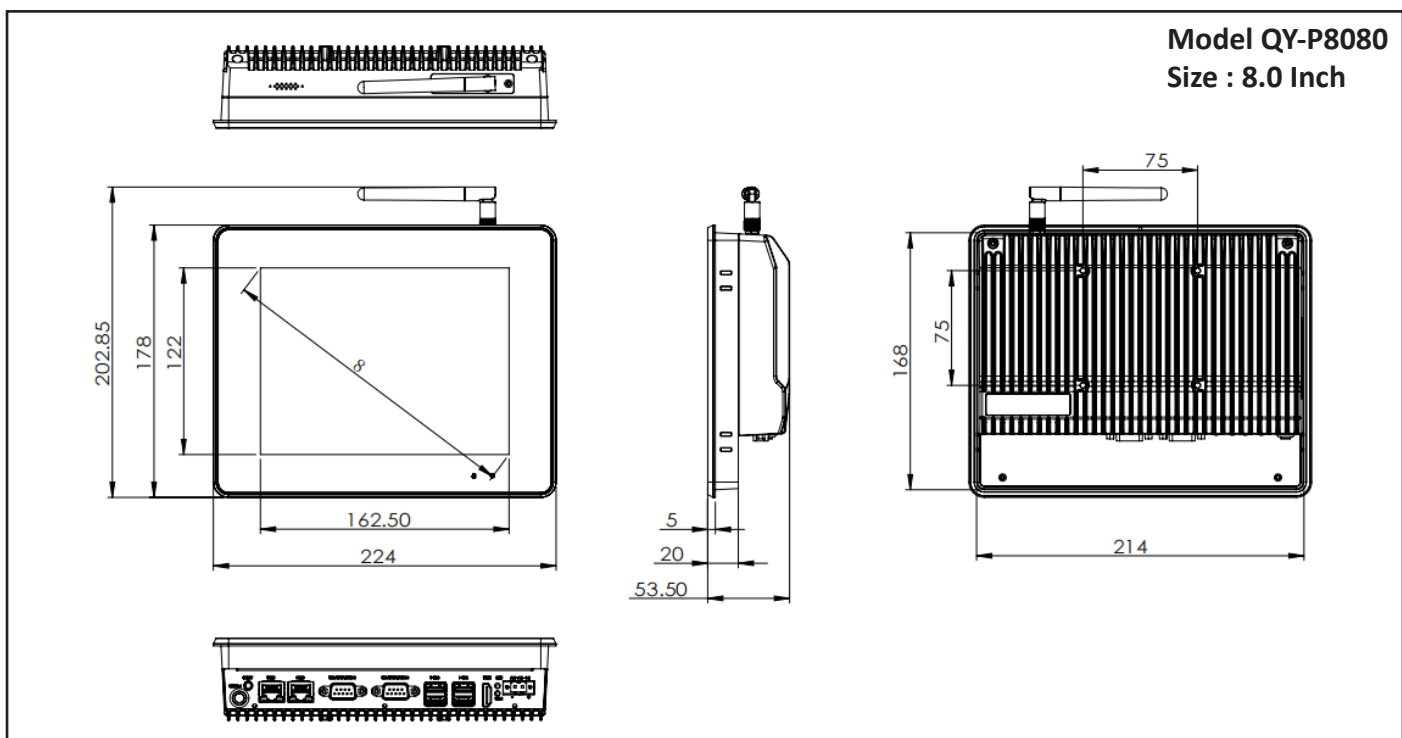
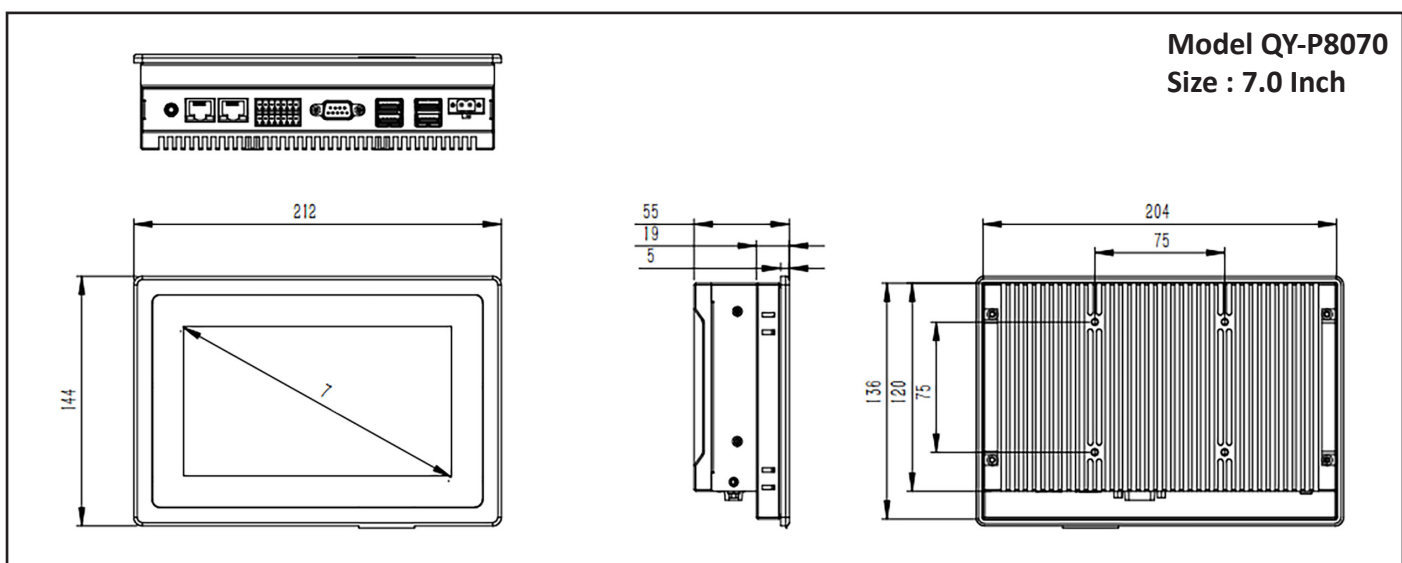
Model	QY-P8000 Series		
Size	7.0-10.1 inch		10.4-32.0 inch
RAM	DDR3	4GB / 8GB	4GB / 8GB
	DDR4	4GB / 8GB / 16GB / 32GB	4GB / 8GB / 16GB / 32GB
SSD	MSATA	64GB / 128GB / 256GB / 512GB / 1TB	64GB / 128GB / 256GB / 512GB / 1TB
	M.2 NVME	None	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	SATA	None	120GB / 128GB / 240GB / 256GB / 480GB / 512GB / 960GB / 1TB / 2TB / 4TB
GSM Module	4G	4G+GPS	4G+GPS
	5G	5G+GPS	5G+GPS
WIFI Module	7260an / 7260ac / AX210		7260an / 7260ac / AX210
CAN BUS Module	None		2 ports CAN BUS interfaces

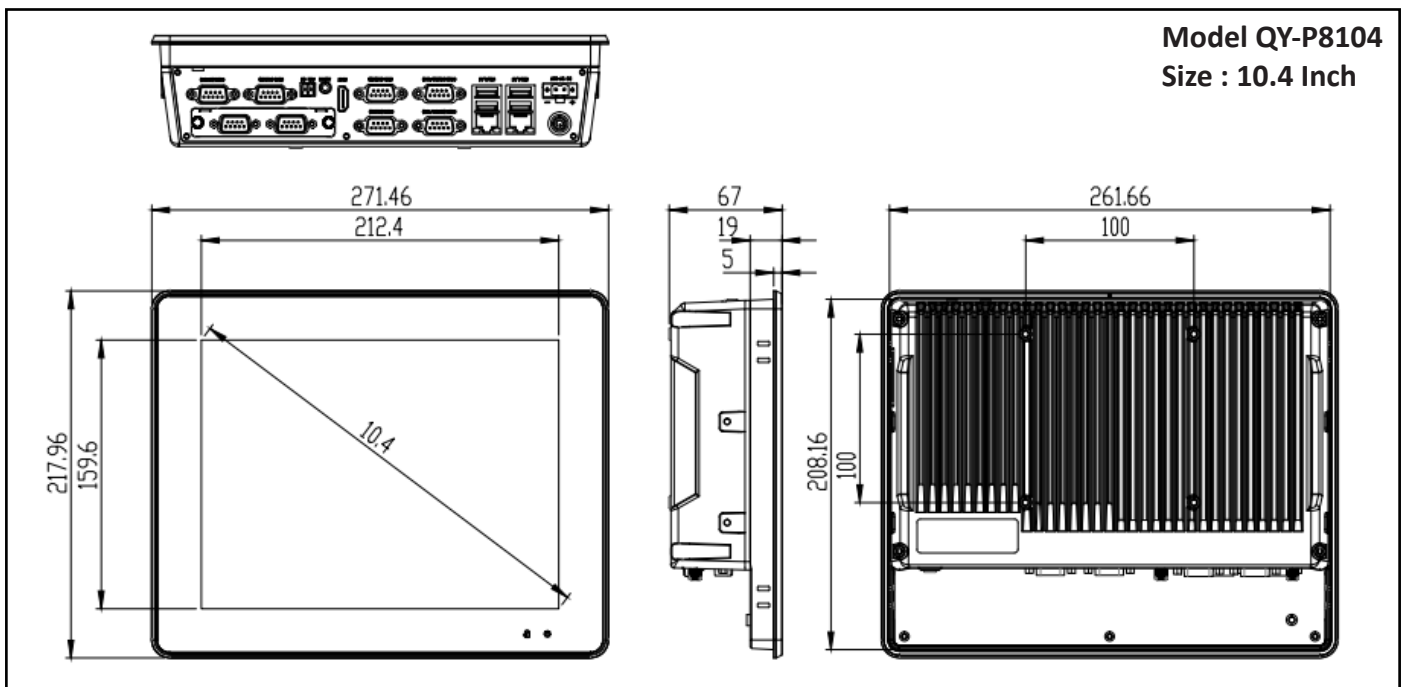
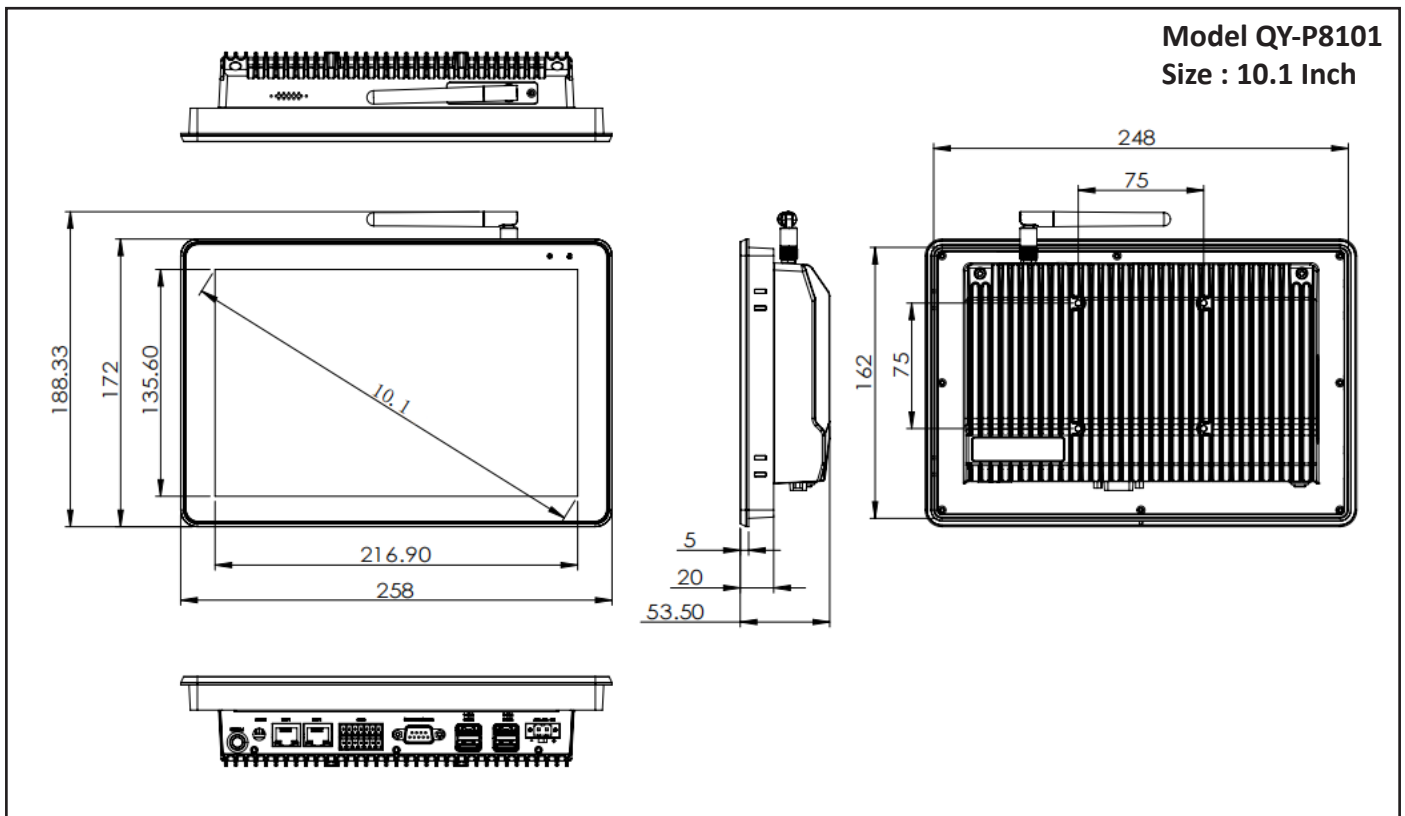


Package

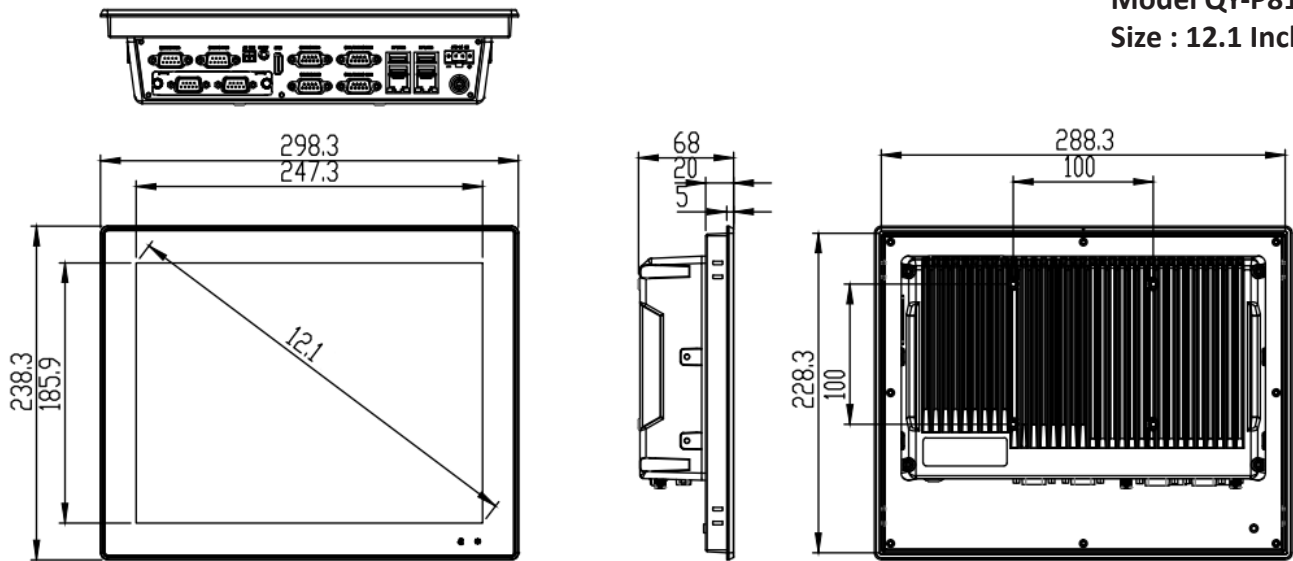
Adapter	Low than 8th CPU: 1*12V 5A adapter More than 8th CPU: 1*12V 7A adapter
Power Cable	1*Power Cable
Mount Clamp	4*Mount Clamp
Terminal	1*2 pin phoenix terminal

Dimensions

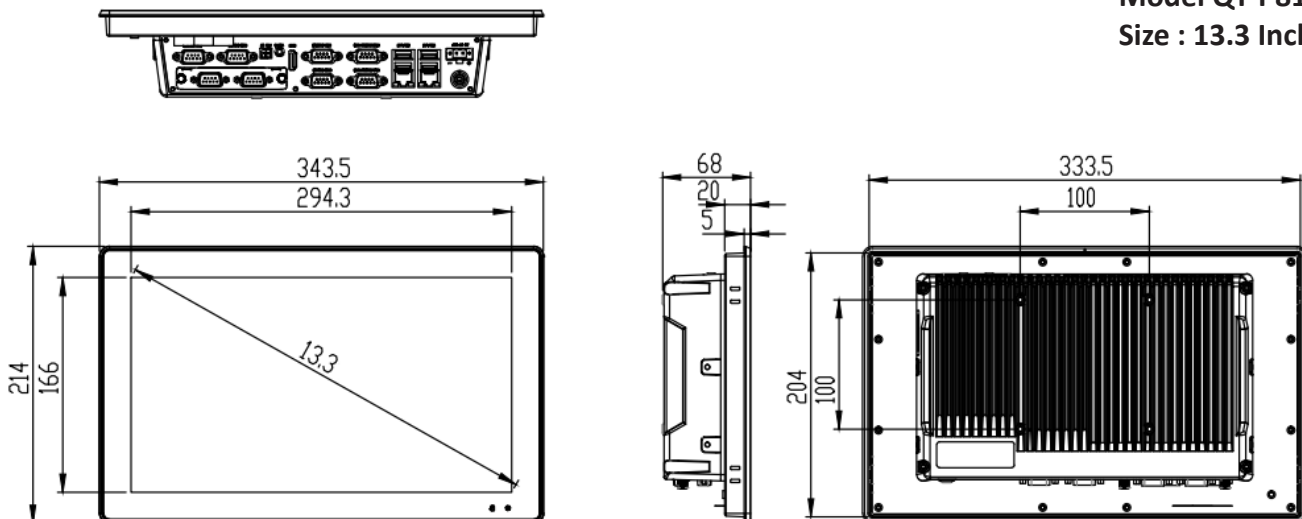




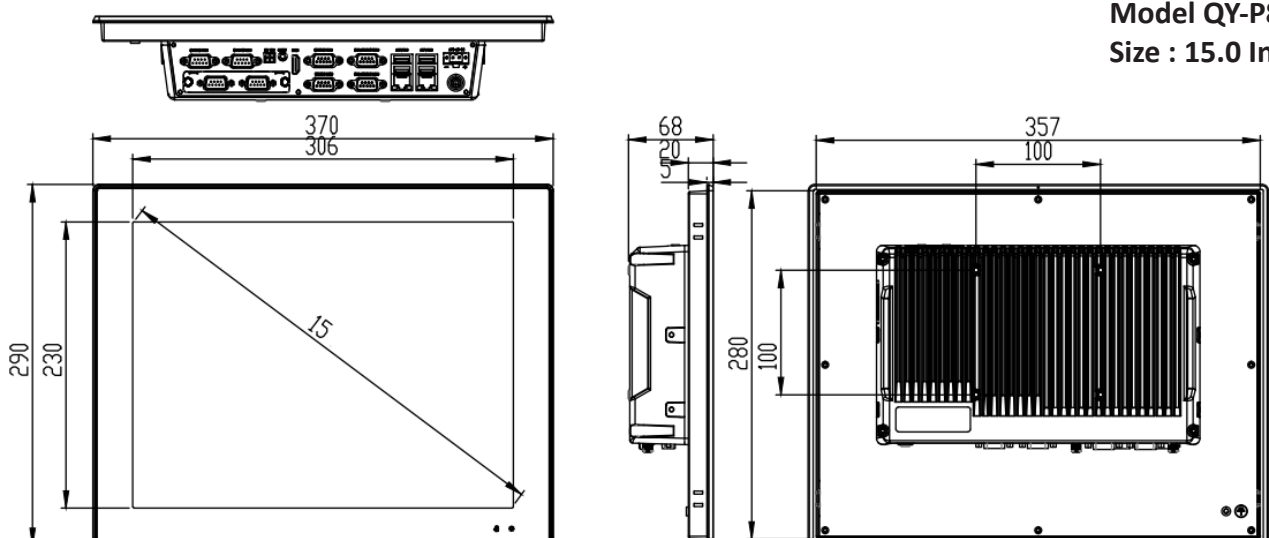
Model QY-P8121
Size : 12.1 Inch



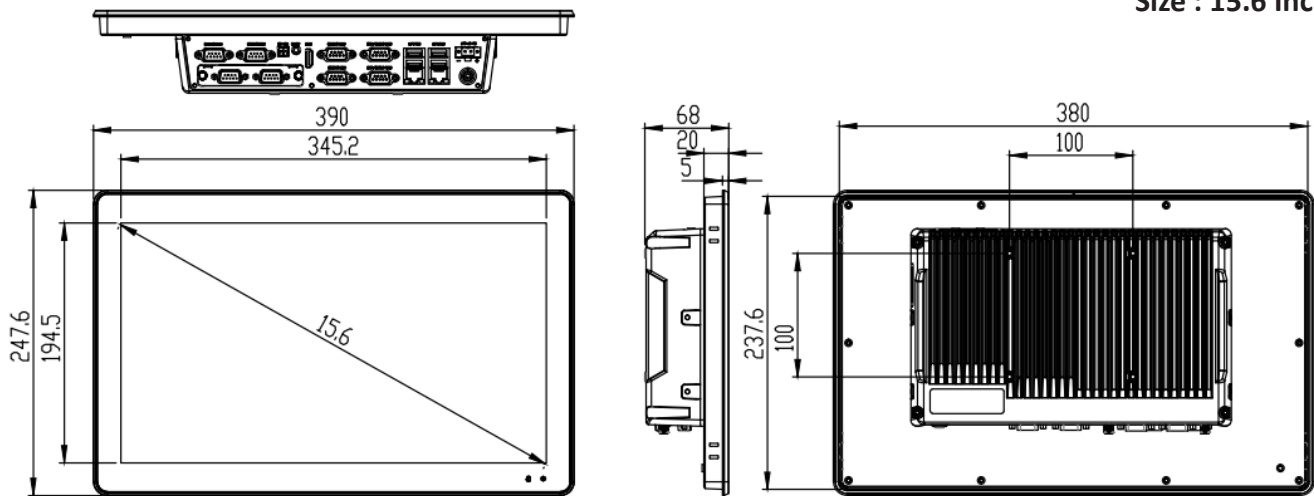
Model QY-P8133
Size : 13.3 Inch



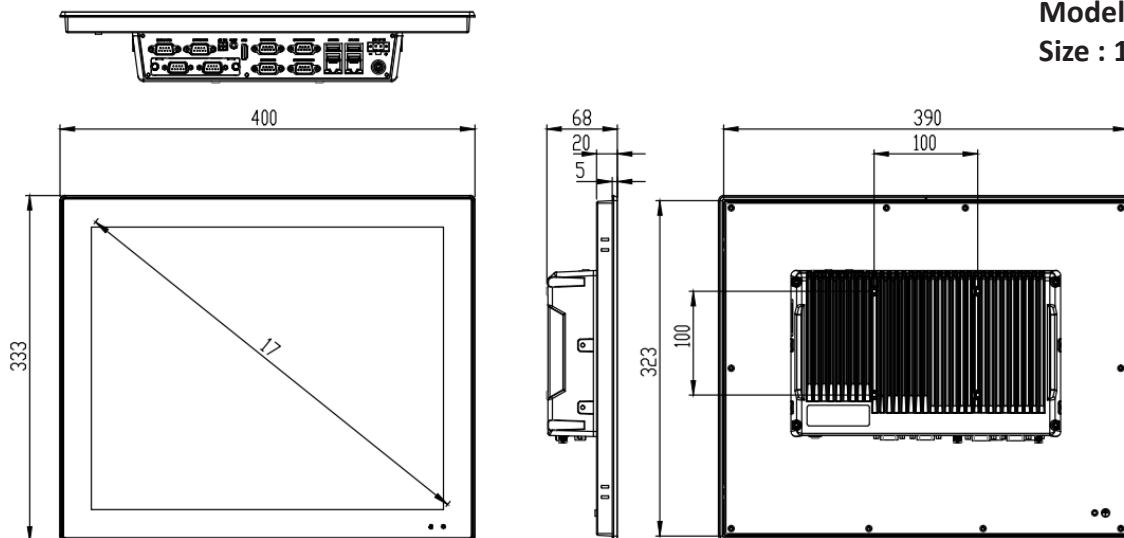
Model QY-P8150
Size : 15.0 Inch



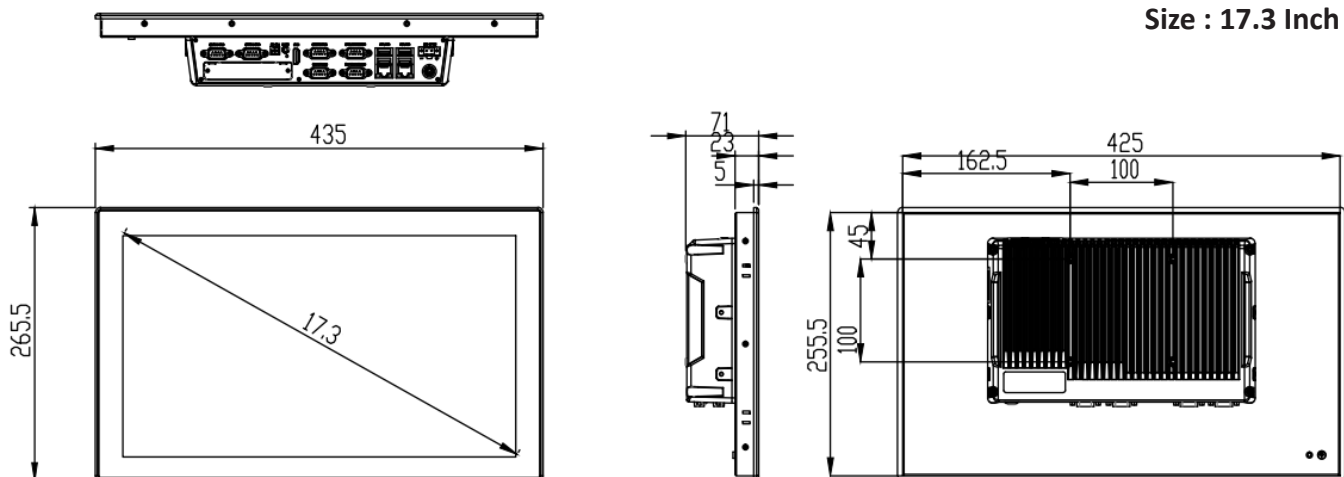
Model QY-P8156
Size : 15.6 Inch



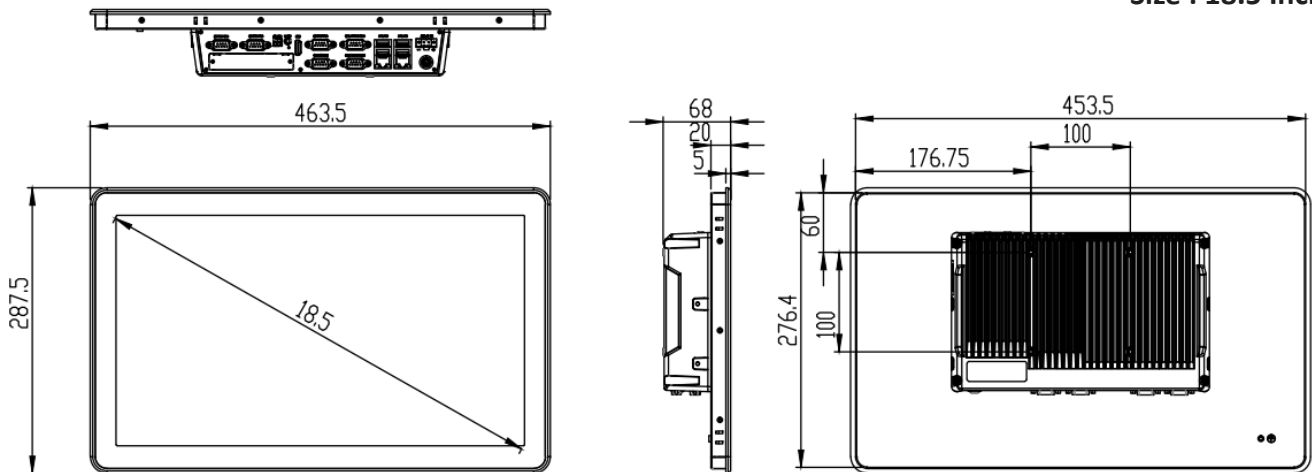
Model QY-P8170
Size : 17.0 Inch



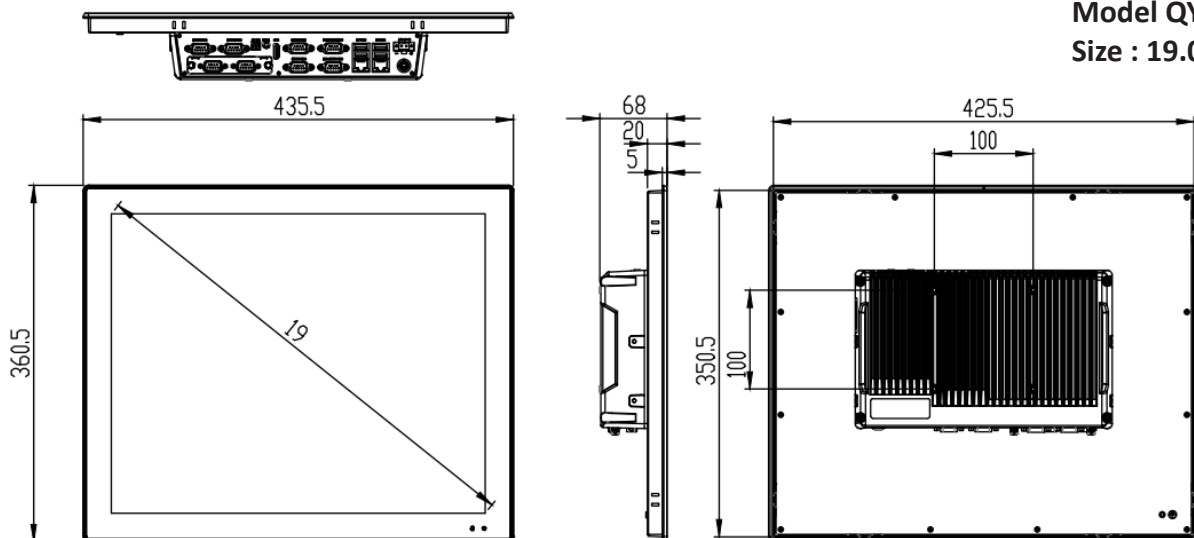
Model QY-P8173
Size : 17.3 Inch



Model QY-P8185
Size : 18.5 Inch



Model QY-P8190
Size : 19.0 Inch



Model QY-P8215
Size : 21.5 Inch

