

QY-P5121

Products Features:

1. Industrial-Grade Embedded Fanless Panel PC
2. 12.1 inch LED Screen, Resolution: 1024*768
3. Support Capacitive and Resistive Touch Screen
4. Intel Celeron and Core 4/7/8/10/11/12/13th-i3/i5/i7 CPU
5. 2*RJ-45, 4*USB, 2*COM, 1*HDMI, 1*VGA
6. Support 4G/5G and WIFI module
7. DC 12V Power Input
8. -20°C~50°C Temperature Can Keep 24/7 Work Stably
9. Front Panel IP65 Water proof





1.Mother Board Specification:

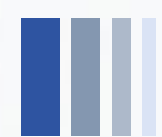
Model	QY-P5121		
CPU	J1900	J6412	N95 / N100
	i3-4010U	i3-7100U / 8130U / 10110U	i3-1115G4 / 1215U / 1315U
	i5-4260U	i5-7200U / 8250U / 10310U	i5-1135G7 / 1235U / 1335U
	i7-4650U	i7-7500U / 8550U / 10710U	i7-1195G7 / 1255U / 1270P / 1355U
Memory ^[1]	2*DDR III RAM Slots Up to 16GB	2*DDR III RAM Slots Up to 32GB	2*DDR III RAM Slots Up to 64GB
Storage	1*MSATA SSD Slot	1*M.2 NVME SSD Slot	
	1*SATA SSD Slot		
Display ^[2]	1*HDMI: Resolution up to 4096*2106@60Hz 1*VGA: Resolution up to 1920*1200@60Hz		
Expansion	2*Mini PCIE Slots Support 4G and WIFI module	1*M.2 and 1*Mini PCIE Slots Support 4G/5G and WIFI module	2*M.2 Slots Support 4G/5G and WIFI module
Ethernet	2*RTL8211F LAN Chip (10 / 100 / 1000 Mbps, RJ-45 Type)		
USB	4*USB 3.0 (Type-A)		
COM	1*RS-232+1*RS-485 / 232 (DB9 Type) Support optional 6*COM ports (Phoenix Terminal Type)		
Audio	1*MIC+1*SPK		

Notes:

[1]: The maximum memory capacity and the maximum capacity per strip supported by this motherboard depend on the CPU.

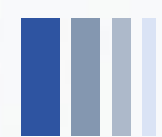
[2]: The maximum resolution and frame rate of the display interface output depends on the CPU.

If you need other specifications, please refer to [P5000 Series Optional Specifications List].



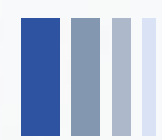
2.Screen Specification:

Screen Size	12.1 inch TFT LED Screen, 4:3 Size	
Resolution	1024*768	
Brightness	350nits	
Contrast	800:1	
Largest Colorful	16M	
Touch Screen Type	Capacitive	Resistive
Transmittance	More than 95%	More than 95%
Touch Life	50 million times	35 million time
Response Time	< 5ms	< 5ms
Touch Hardness	6 Mohs	
Protection	Front Panel IP65 Water Proof	



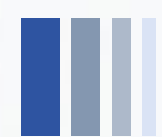
3.Device Specification:

Power Input	DC 12V (Support Optional DC 9-36V Wide Voltage Power Module)
	Support Auto-Start
	1*2.5mm circle type DC Plug
Working Temperature	-20℃~60℃, Support 24/7 Working
Structure	Fully Enclosed Aluminum Alloy Material
Heat Dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall Mount
Size	298.3mm*238.3mm*57mm
System	Windows and Linux



4.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



5.Ordering Information:

Model	CPU	LAN	USB	COM	RAM	SSD	Expansion	Power
P5121	J1900	2	4	1*RS-232/485 1*RS-232	1*DDR 3 Up to 8GB	1*MSATA 1*SATA	1*Mini PCIE	DC 12V
	4th				2*DDR 3 Up to 16GB		2*Mini PCIE	
	J6412				2*DDR 4 Up to 32GB			
	7th / 8th				2*DDR 4 Up to 32GB	1*M.2 NVME 1*SATA	1*Mini PCIE 1*M.2	
	10th				2*DDR 4 Up to 64GB		2*M.2	
	N95 / N100				1*DDR 4 Up to 16GB			
	11th / 12th / 13th				2*DDR 4 Up to 64GB			

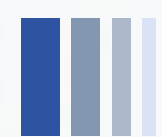
6.Package List:

Adapter	1*12V 5A Adapter
Power Cable	1*Power Cable
Mount Clamp	4*Mount Clamp



7.CPU Information:

CPU	Specification	
J1900	4 core, 4 total threads, 2.00 GHz to 2.40GHz, 2 MB cache	Max to 8GB for 1*DDR 3 Slot
i3-4010U	2 core, 4 total threads, 1.70 Ghz, 3 MB Cache	Max to 16GB for 2*DDR 3 Slots
i5-4260U	2 core, 4 total threads, 1.40 GHz to 2.70GHz, 3 MB cache	Max to 16GB for 2*DDR 3 Slots
i7-4650U	2 core, 4 total threads, 1.70 GHz to 3.30GHz, 4 MB cache	Max to 16GB for 2*DDR 3 Slots
N95	4 core, 4 total threads, 3.40GHz, 6 MB cache	Max to 16GB for 1*DDR 4 Slot
N100	4 core, 4 total threads, 3.40GHz, 6 MB cache	Max to 16GB for 1*DDR 4 Slot
J6412	4 core, 4 total threads, 2.00 GHz to 2.60GHz, 1.5 MB cache	Max to 32GB for 2*DDR 4 Slots
i3-7100U	2 core, 4 total threads, 2.40 GHz, 3MB cache	Max to 32GB for 2*DDR 4 Slots
i5-7200U	2 core, 4 total threads, 2.50 GHz to 3.10GHz, 3 MB cache	Max to 32GB for 2*DDR 4 Slots
i7-7500U	2 core, 4 total threads, 2.70 GHz to 3.50GHz, 4 MB cache	Max to 32GB for 2*DDR 4 Slots
i3-8130U	2 core, 4 total threads, 2.20 GHz to 3.40 GHz, 4MB cache	Max to 32GB for 2*DDR 4 Slots
i5-8250U	4 core, 8 total threads, 1.60 GHz to 3.40 GHz, 6MB cache	Max to 32GB for 2*DDR 4 Slots
i7-8550U	4 core, 8 total threads, 1.80 GHz to 4.00 GHz, 6MB cache	Max to 32GB for 2*DDR 4 Slots
i3-10110U	2 core, 4 total threads, 2.10 GHz to 4.10 GHz, 4MB cache	Max to 64GB for 2*DDR 4 Slots
i5-10310U	4 core, 8 total threads, 1.70 GHz to 4.40 GHz, 6 MB cache	Max to 64GB for 2*DDR 4 Slots
i7-10710U	6 core, 12 total threads, 1.10 GHz to 4.70 GHz, 12 MB cache	Max to 64GB for 2*DDR 4 Slots
i3-1115G4	2 core, 4 total threads, 4.10 GHz, 6MB cache	Max to 64GB for 2*DDR 4 Slots
i5-1135G7	4 core, 8 total threads, 2.40 GHz to 4.20 GHz, 8MB cache	Max to 64GB for 2*DDR 4 Slots
i7-1165G7	4 core, 8 total threads, 2.80 GHz to 4.70 GHz, 12MB cache	Max to 64GB for 2*DDR 4 Slots
i3-1215U	6 core, 8 total threads, 40 GHz, 10MB cache	Max to 64GB for 2*DDR 4 Slots
i5-1235U	10 core, 12 total threads, 3.20 GHz to 4.40 GHz, 12MB cache	Max to 64GB for 2*DDR 4 Slots



i7-1255U	10 core, 12 total threads, 3.50 GHz to 4.70 GHz, 12MB cache	Max to 64GB for 2*DDR 4 Slots
i7-1270P	12 core, 16 total threads, 3.50 GHz to 4.80 GHz, 18 MB cache	Max to 64GB for 2*DDR 4 Slots
i3-1315U (Coming soon)	6 core, 8 total threads, 3.30 GHz to 4.50 GHz, 10 MB cache	Max to 64GB for 2*DDR 4 Slots
i5-1335U (Coming soon)	10 core, 12 total threads, 3.40 GHz to 4.60 GHz, 12 MB cache	Max to 64GB for 2*DDR 4 Slots
i7-1355U (Coming soon)	10 core, 12 total threads, 3.70 GHz to 5.00 GHz, 12 MB cache	Max to 64GB for 2*DDR 4 Slots

8.System Information:

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

9.Fittings Information:

RAM	DDR 3	4GB / 8GB
	DDR 4	4GB / 8GB / 16GB / 32GB
SSD	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	SATA	120GB / 128GB / 240GB / 256GB / 480GB / 512GB / 960GB / 1TB / 2TB / 4TB
GSM Module	4G	4G+GPS
	5G	5G+GPS



WIFI Module	7260AC / AX210
Wide Voltage Power Module	DC 9-36V

10.Dimensions:

