

QY-P5190



Products Features:

1. Industrial-Grade Embedded Fanless Panel PC
2. 19 inch LED screen, 1280*1024 Resolution
3. Capacitive and Resistive touch screen
4. Intel Celeron and Core 3/4/7/8/10/11/12th-i3 / i5 / i7 CPU
5. 2*LAN, 4*USB, 2*COM, 1*HDMI, 1*VGA
6. Support 4G/5G and WIFI module
7. DC 12V Power Input
8. -20°C~60°C Temperature Can Keep 24/7 Work Stably



1-1.Mother Board Specification:

Model	P5190
CPU	J1900
Memory*	1*DDR III RAM Slot, Up to 8GB
Storage*	1*MSATA SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 1920*1200@60Hz 1*VGA: Resolution up to 1920*1200@60Hz
Expansion*	1*Mini PCIE slots for 4G and WIFI module
Ethernet	2*RTL8211F LAN Chip (10 / 100 / 1000 Mbps, RJ-45 type)
USB*	1*USB 3.0 (Type-A) 3*USB 2.0 (Type-A)
COM	1*RS-232 (DB9 type) 1*RS-485 / 232 (DB9 type) (Support optional 6*COM ports, Phoenix terminal type)
Audio	1*MIC+1*SPK

1-2.Mother Board Specification:

Model	P5190
CPU	i3-4010U / i5-4260U / i7-4650U
Memory*	2*DDR III RAM Slots, Up to 16GB
Storage*	1*MSATA SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 1920*1200@60Hz 1*VGA: Resolution up to 1920*1200@60Hz
Expansion*	2*Mini PCIE slots for 4G 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 (DB9 type) 1*RS-485 / 232 (DB9 type) (Support optional 6*COM ports, Phoenix terminal type)
Audio	1*MIC+1*SPK

1-3.Mother Board Specification:

Model	P5190
CPU	J6412
Memory*	2*DDR III RAM Slots, Up to 32GB
Storage*	1*MSATA SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 1920*1200@60Hz 1*VGA: Resolution up to 1920*1200@60Hz
Expansion*	2*Mini PCIE slots for 4G 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 (DB9 type) 1*RS-485 / 232 (DB9 type) (Support optional 6*COM ports, Phoenix terminal type)
Audio	1*MIC+1*SPK

1-4.Mother Board Specification:

Model	P5190
CPU	i3: 7100U / 8130U / 10110U i5: 7200U / 8250U / 10210U i7: 7500U / 8650U / 10610U
Memory*	2*DDR III RAM Slots, Up to 64GB ^[1]
Storage*	1*M.2 NVME SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 1920*1200@60Hz 1*VGA: Resolution up to 1920*1200@60Hz
Expansion*	1*Mini PCIE slot for WIFI module 1*M.2 Slot for 4G/5G module
Ethernet	2*RTL8211F LAN Chip (10 / 100 / 1000 Mbps, RJ-45 type)
USB*	4*USB 3.0 (Type-A)
COM	1*RS-232 (DB9 type) 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.Screen Specification:

Screen Size	19 inch TFT LED Screen, 4:3 Size	
Resolution	1280*1024	
Brightness	350nits	
	Support optional 500 / 700 / 1000 nits	
Contrast	800:1	
Largest Colorful	16M	
Touch Screen Type	Capacitive	Resistive
Light Transmittance	More than 95%	More than 95%
Touch Life	50 million times	35 million times
Response Time	< 5ms	< 5ms
Touch Hardness	6 Mohs	

3.Device Specification:

BIOS	AMI UEFI BIOS
Power Input	DC 12V (Support optional DC 9-36V wide voltage power input)
	Support AT / ATX
	1*2.5mm circle type DC plug
Working Temperature	-20°C~60°C, Support 24/7 Working
Size	435.5mm*360.5mm*57mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall / Rack Mount
System	Windows XP / 7 / 10 / 11 and Linux

4. Wide Voltage Input and 6*COM ports Version:



Display	1*HDMI 1*VGA
Ethernet	2*RJ-45
USB	4*USB
COM	5*RS-232+1*RS-232 / 485
Audio	1*MIC+1*SPK
Power Input	DC 9-36V
	2*Pin Phoenix terminal ports

5.CPU Information (For reference only):

CPU	Specification
J1900	4 core, 4 total threads, 2.00 GHz to 2.42 GHz, 2MB cache
J6412	4 core, 4 total threads, 2.00 GHz to 2.60 GHz, 1.5MB cache
N100	4 core, 4 total threads, 3.40 GHz, 6MB cache
i5-3317U	2 core, 4 total threads, 1.70 GHz to 2.60 GHz, 3MB cache
i3-4010U	2 core, 4 total threads, 1.70 GHz, 3MB cache
i5-4260U	2 core, 4 total threads, 1.70 GHz, 3MB cache
i7-4650U	2 core, 4 total threads, 1.70 GHz to 3030 GHZ, 4MB cache
i3-7100U	2 core, 4 total threads, 2.40 GHz, 3MB cache
i5-7200U	2 core, 4 total threads, 2.50 GHz to 3.10 GHz, 3MB cache
i7-7500U	2 core, 4 total threads, 2.70 GHz to 3.50 GHz, 4MB cache
i3-8130U	2 core, 4 total threads, 2.20 GHz to 3.40 GHz, 4MB cache
i5-8250U	4 core, 8 total threads, 1.60 GHz to 3.40 GHz, 6MB cache
i3-10110U	2 core, 4 total threads, 2.10 GHz to 4.10 GHz, 4MB cache
i5-10210U	4 core, 8 total threads, 1.60 GHz to 4.20 GHz, 6MB cache
i7-10610U	4 core, 8 total threads, 1.80 GHz to 4.90 GHz, 8MB cache
i5-1135G7	4 core, 8 total threads, 2.40 GHz to 4.20 GHz, 8MB cache
i7-1165G7	4 core, 8 total threads, 2.80 GHz to 4.70 GHz, 12MB cache
i5-1235U	10 core, 12 total threads, 3.30 GHz to 4.40 GHz, 12MB cache
i7-1255U	10 core, 12 total threads, 3.50 GHz to 4.70 GHz, 12MB cache

6.Ordering Information:

Model	CPU	LAN	USB	COM	Display	RAM	SSD	Expansion	Power
P5190-1	J1900	2	4	2	1*HDMI 1*VGA	1*DDR 3	1*MSATA 1*SATA	1*Mini PCIE	DC 12V
	4th					2*DDR 3		2*Mini PCIE	
	J6412					2*DDR 4	1*M.2 NVME 1*SATA		
	7th/8th 10th								
P5190-2	3th		2			2*DDR 3	1*MSATA 1*SATA	1*Mini PCIE	
	N100						1*M.2 NVME 1*SATA	2*M.2	
P5190-3	11th/12th		4		2*HDMI	1*DDR 4	1*M.2 NVME 1*SATA	2*Mini PCIE	

7.System Information:

CPU	Usable systems
3th	Windows XP / 7 / 10 and Linux
J1900	Windows 7 / 10 and Linux
4th	Windows 7 / 10 and Linux
7th ^[1]	Windows 7 / 10 and Linux
N100 / J6412	Windows 10 / 11 and Linux
8th / 10th 11th / 12th	Windows 10 / 11 and Linux

8. Fittings Information:

RAM ^[2]	DDR 3	4GB / 8GB
	DDR 4	4GB / 8GB / 16GB / 32GB
Storage ^[3]	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
	SATA	128GB / 240GB / 256GB / 480GB / 512GB / 960GB 1TB / 2TB / 4TB
GSM Module ^[4]	4G	4G+GPS function
	5G	5G+GPS function
WIFI Module	7260AC / AX210	
Wide Voltage Power Module	DC 9-36V module	

9. Package List:

Adapter ^[5]	1*12V 5A adapter
Power Cable ^[6]	1*Power Cable

Notices:

[1]: The windows 7 system doesn' t have the USB 3.0 driver

[2][3]: By default the industrial grade for RAM and SSD are used, and the minimum configuration is recommended to be 4+64GB.

[4]: Different countries and regions are applicable to different versions, please inform the business staff in advance when ordering.

[5]: CPU low than 8th equipped 5A adapter, More than 8th equipped 7A adapter.

[6]: Different countries and regions use different types of power cord plugs, please inform the business personnel in advance.

10.Dimensions:

