

QY-B8000



Products Features:

1. Industrial-Grade Embedded Fanless Mini PC
2. Intel Celeron and Core 4 / 6 / 7 / 8 / 10th-i3 / i5 / i7 CPU
3. 2*LAN, 4*USB, 6*COM, 1*HDMI
4. Anti-Static, Anti-Pulse, Anti-Surge, Anti-Radiation
5. -30°C~70°C Temperature Can Keep 24/7 Work Stably
6. 1*Mini PCIE Expansion Slot, Support 4G and WIFI Module
7. DC 9-36V Power Input with Overvoltage Protection
8. 1*Multifunctional Expansion Daughter Card



1-1.Mother Board Specification:

Model	QY-B8000
CPU	J1900
Memory	1*DDR III RAM Slot, Up to 8GB
Storage	1*MSATA SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 4090*2160@60Hz
Expansion	1*Mini PCIE Slot, Support 4G and WIFI module
Ethernet	2*Intel i211V LAN chip (10 / 100 / 1000 Mbps, RJ-45)
USB	3*USB 2.0+1*USB 3.0
COM	2*RS-232 / 422 / 485 (DB9 type) 4*RS-232 (DB9 type)
Daughter card	Support expand I/O interfaces card and functional slots card

1-2.Mother Board Specification:

Model	QY-B8000
CPU	i3-4010U / i5-4260U / i7-4650U
Memory	2*DDR III RAM Slot, Up to 16GB
Storage	1*MSATA SSD 1*SATA SSD
Display	1*HDMI: Resolution up to 4090*2160@60Hz
Expansion	1*Mini PCIE Slot, Support 4G and WIFI module
Ethernet	2*Intel i255V LAN chip (10 / 100 / 1000 /2500 Mbps, RJ-45)
USB	4*USB 3.0
COM	2*RS-232 / 422 / 485 (DB9 type) 4*RS-232 (DB9 type)
Daughter card	Support expand I/O interfaces card and functional slots card

1-3.Mother Board Specification:

Model	QY-B8000
CPU	J6412 i3: 7100U i5: 6200U / 7200U / 8260U / 10210U i7: 7500U / 10610U
Memory^[1]	2*DDR III RAM Slot, Up to 32GB
Storage^[2]	1*MSATA SSD 1*SATA SSD (Support RAID 1)
Display	1*HDMI: Resolution up to 4090*2160@60Hz
Expansion	1*Mini PCIE Slot, Support 4G and WIFI module
Ethernet	2*Intel i255V LAN chip (10 / 100 / 1000 /2500 Mbps, RJ-45)
USB	3*USB 2.0+1*USB 3.0
COM	2*RS-232 / 422 / 485 (DB9 type) 4*RS-232 (DB9 type)
Daughter card	Support expand I/O interfaces card and functional slots card

Notes:

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

[2]: It needs add a SATA SSD expansion card and CPU generation needs more than 7th if you want built RAID 1

2. Device Specification:

BIOS	AMI UEFI BIOS (Support Watch Dog Timer)
Power Input	DC 9-36V, Overvoltage Protection
	Support AT / ATX
	2*Pin Phoenix Terminal DC Plug
Working Temperature	-30°C~70°C, Support 24/7 Working
Size	285mm*160mm*50.5mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall / Rail Mounted
System	Windows 7 / 10 / 11 and Linux

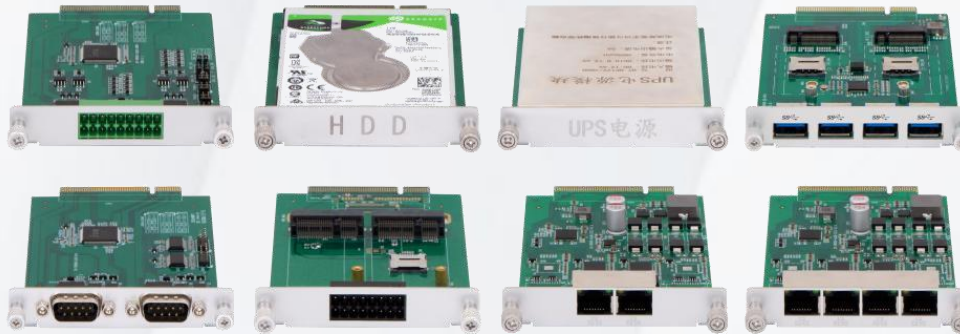
3. Ordering Information:

Model	CPU	LAN	USB	COM	Display	RAM	SSD	Expansion	Power Input
B8000	J1900	2	4	6	1*HDMI	1*DDR 3	1*MSATA 1*SATA	1*Mini PCIE	DC 9-36V
	4th					2*DDR 3			
	J6412					2*DDR 4			
	6th/7th 8th/10th								

4. CPU Information:

CPU	Specification
J1900	4 core, 4 total threads, 2.00 GHz to 2.42GHz, 2 MB cache
J6412	4 core, 4 total threads, 2.00 GHz to 2.60 GHz, 1.5MB cache
i3-4010U	2 core, 4 total threads, 1.70 GHz, 3MB cache
i5-4260U	4 core, 4 total threads, 2.00 GHz to 2.42GHz, 2 MB cache
i7-4650U	2 core, 4 total threads, 1.70 GHz to 3.30 GHz, 4MB cache
i5-6200U	2 core, 4 total threads, 2.30 GHz to 2.80GHz, 3 MB cache
i3-7100U	2 core, 4 total threads, 2.40 GHz, 3 MB cache
i5-7200U	2 core, 4 total threads, 2.50 GHz to 3.10 GHz, 3 MB cache
i7-7500U	2 core, 4 total threads, 2.70 GHz to 3.50 GHz, 4 MB cache
i5-8260U	4 core, 8 total threads, 1.60 GHz to 3.90 GHz, 6 MB cache
i5-10210U	4 core, 8 total threads, 1.60 GHz to 4.20 GHz, 6 MB cache
i7-10610U	4 core, 8 total threads, 1.80 GHz to 4.90 GHz, 8 MB cache

5. Daughter Card Information^[1]:



Ethernet-2	2*Intel 211V LAN chip (RJ-45 Type)
Ethernet-4^[2]	4*Intel 211V LAN chip (RJ-45 Type), Support POE function
COM-2	2*RS-485 / 232 (DB9 type)
COM-6	2*RS-232+4*RS-485 / 232 (phoenix type)
GPIO-14	14 road GPIO (7*GPI,7*GPO), phoenix type ports
DIDO-14	14 ports DIDO, phoenix type ports
USB-4^[3]	4*USB 3.0 (Type-A)
Mini PCIE Slots-2	2*Mini PCIE slots
M.2 Slots	1*M.2 Key-B slot, support 5G module
M.2 NVME SSD slot^[4]	1*M.2 NVME slot
SATA SSD Slot^[5]	1*SATA 3.0 SSD slot, Pull-out design (Support RAID 1)
CAN Card slot	2 ports CAN interfaces
Battery module	1.2AH or 4.8AH Support timed automatic shutdown function

Notices:

[1]: The daughter card is a proprietary design of our company and cannot be used with other PCIE interface expansion cards.

[2]: When using POE Ethernet ports card, a 24V 5A adapter is required.

[3][4]: J1900 and 4th CPU are not support.

[5]: J1900 CPU are not support. It can built RAID 1 if CPU generation more than 7th.

6.System Information:

CPU	Specification
J1900	Windows 7 / 10 and Linux
4th / 6th	Windows 7 / 10 and Linux
7th ^[1]	Windows 7 / 10 and Linux
J6412 / 8th / 10th	Windows 10 / 11 and Linux

7.Fittings Information:

RAM ^[2]	DDR 3	4GB / 8GB
	DDR 4	4GB / 8GB / 16GB / 32GB
Storage ^[3]	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
	SATA	128GB / 240GB / 256GB / 480GB / 512GB / 960GB 1TB / 2TB / 4TB
	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
GSM Module ^[4]	4G	4G+GPS function
	5G	5G+GPS function
WIFI Module	7260AC / AX210	
CAN module	2 ports CAN interfaces	

8.Package List:

Adapter ^[5]	1*12V 5A adapter
Power Cable ^[6]	1*Power Cable
Terminal-1	1*2 Pin Phoenix terminal for Power Switch

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.

9.Dimensions:

