

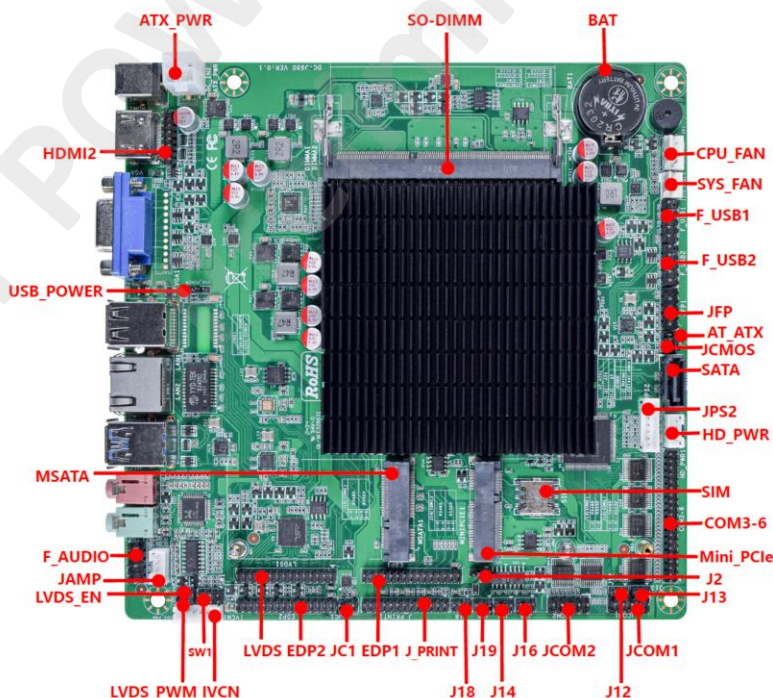
ESY-BJ101

J1900 ITX 170x170 Motherboard

Features

- Integrated with Intel Celeron CPU J1900, Intel Bay Trail SOC
- Memory: 1 x SO-DIMM DDR3L 1333 MHz, up to 8GB (Single Slot), Compatible with 1600 MHz
- Storage: 1 x mSATA, Internal Port: 1 x SATA 2.0
- Integrated Intel® HD Graphics
- Power Support: Recommended 12V/4A or above
- Supports Windows 7, Windows 8/8.1, Windows 10
- Dimension – Mini ITX 170mm x 170 mm

Appearance





ESY-BJ101

J1900 ITX 170x170 Motherboard

Revision Table

Date	Revision	Content	By
2025/9/4	0.1	First Draft	Elio

ACT POWER TAIWAN
Preliminary

ESY-BJ101

J1900 ITX 170x170 Motherboard

Specification

Processor	Intel Celeron J1900
Chipset	Intel Bay Trail SOC
Memory	1 x SO-DIMM DDR3L 1333 MHz, up to 8GB (Single Slot), Compatible with 1600 MHz
Graphics	Integrated Intel ® HD Graphics
I/O Interfaces	1 x VGA, 1 x HDMI Internal Headers: 1 x LVDS, 1 x HDMI Supports Dual-Display and Triple-Display Simultaneous/Asynchronous Output (Clone, Extended)
Resolution	1920 x 1080 @ 60 Hz
USB	1 x USB 3.0, 3 x USB 2.0, 4 x USB 2.0
Audio	Realtek ALC897 + NS4258, Amplifier Supports 5.2w @ 2Ω, 3.2W @ 4Ω
LAN	RTL 8111H Gigabit Ethernet
Storage	1 x mSATA, Internal Port: 1 x SATA 2.0
PS/2	Keyboard/Mouse, Internal Header: 1 x PS/2
I/O Chipset	IT8786e-I
Expansion Slot	1 x Mini PCIe (Supports WIFI + BT /4G Modules)
Other I/O Ports	1 x DC Jack, 1 x RJ45, 1 X Line-Out (3.5mm Audio Output), 1 x Mic-In (3.5 mm Microphone Input)
Operating System	Windows 7 / 8 / 8.1 / 10
Dimension	Mini ITX 170 x 170mm
Power Support	Recommended 12V / 4A or above

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CPU Specification

CPU Series	CPU Model	Base Frequency	Burst Frequency	Cores	Threads	CPU Power (TDP)	Motherboard Full Load Power
Intel Celeron	J1900	1.99 GHz	2.41 GHz	4	4	10W	Approx. 30W

Environment Compliance

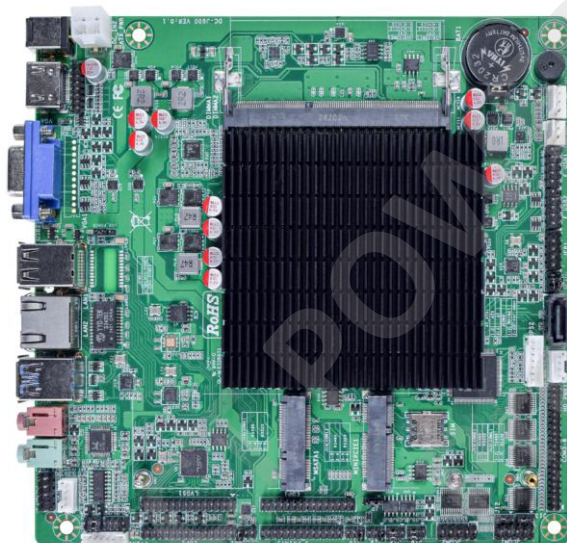
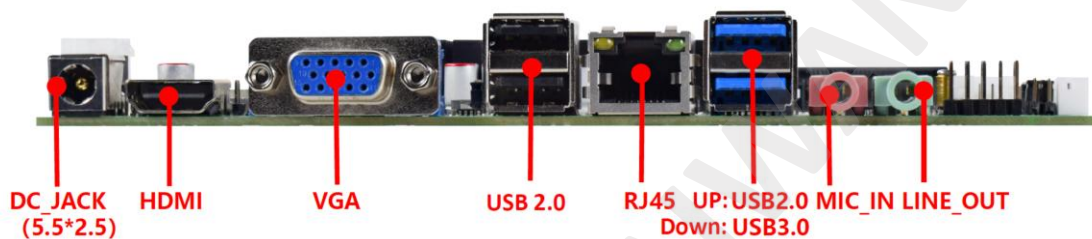
Operating Temp.	0°C to 60°C
Storage Temp.	-20°C to 70°C
Humidity	5% ~ 95%

Environmental performance may vary according to the integration method or final integration scenario.

ESY-BJ101

J1900 ITX 170x170 Motherboard

Reference Drawing



ESY-BJ101

J1900 ITX 170x170 Motherboard

Deliverables

1	J1900 ITX 170x170 Motherboard
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Ordering Information

Model Name	Description	Unit
ESY-BJ101	J1900 ITX 170x170 Motherboard	1

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