



Embedded Motherboard



MI-J1900SL

BAY TRAIL THIN MINI-ITX MOTHERBOARD



Intel® Bay Trail
Celeron J1900 processor



1 x HDMI (2560 x 1600 @60 Hz)
1 x VGA (2048 x 1536 @60 Hz)
1 x LVDS (1920 x 1200 @60 Hz)



support Wi-Fi/BT module
support 3G/4G module



Mini-ITX form-factor
170 mm x 170 mm (6.69" x 6.69")

CPU

CPU	Intel® Celeron® J1900 processor
Frequency	2.42 GHz
Chipset	SoC
Processing Units	4 Cores
TDP	10 W

System

GPU	Intel® HD Graphics
Graphic Engine	DirectX 11, OpenGL 4.0, OpenCL 1.2
System Memory	Up to 8 GB, 2 x SO-DIMM DDR3L-1333 MHz
Storage	1 x Full-size Mini-PCIe for MSATA 1 x 2.5" SATAIII
TPM	Optional: TPM2.0
Watchdog Timer	Yes
Auto Power On	Yes
RTC	Set up independently every day, a week as a cycle
Remo on	NA
Power Requirement	DC-IN, 12 V/19 V
Dimensions	170 mm x 170 mm (6.69" x 6.69")
Fanless	Yes
Operating System	Windows 7 (64bit) /Windows 8 (64bit) Windows 10 (64bit) /Linux Ubuntu (64bit)
Operating Temperature	0°C ~60°C (32°F~140°F) @0.7m/s Air Flow
Humidity	95% @ 60°C (non-condensing)

Network

Network Controller	1 x Realtek RTL 8111H Gigabit Ethernet
Wi-Fi/BT	1 x Full-size Mini-PCIe for Wi-Fi/BT
Mobile Network	3G/4G Colay with 1 x Mini-PCIe for Wi-Fi/BT 1 x SIM Slot

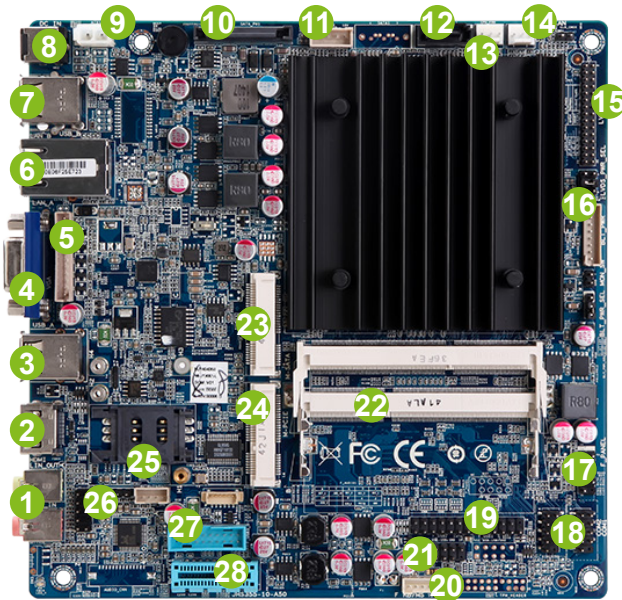
Rear I/O

USB	4 x USB2.0
Display Interface	1 x HDMI (Max.2560 x 1600 @60 Hz) 1 x VGA (Max.2048 x 1536 @60 Hz)
Audio	1 x MIC-IN, 1 x AUDIO-OUT,
Ethernet Interface	1 x RJ45

Internal I/O

USB	4 x USB2.0, signal by 2 x 9pin USB header 1 x F_USB3.2 Gen1
Display	1 x 12pin VGA header, 1 x 30pin dual channel 24bit LVDS (Max. 1920 x 1200 @60 Hz)
Serial port	2 x 9pin RS232
PCIe	1 x PCIe X1
Power	1 x 2pin ATX_PWR
Audio	1 x 4pin SPEAKER
Others	1 x 36pin LPT 1 x 6pin PS/2 1 x 9pin F_PANEL 1 x 2pin CLR_CMOS 1 x 6pin INVERTER 1 x 8pin+4pin SATA_PWR 1 x 3pin SYS_FAN, 1 x 3pin CPU_FAN

Dimensions and Drawing



No.	Dimensions	No.	Dimensions
1	AUDIO_OUT, MIC_IN	20	F_PS/2
2	HDMI	21	USB HEADER
3	2*USB	22	2*SO-DIMM
4	VGA	23	MSATA
5	VGA_OUT	24	MINI-PCIE
6	LAN	25	SIM SLOT
7	2*USB	26	F_AUDIO
8	DC_IN	27	USB3.2 GEN1 HEADER
9	ATX	28	PCIE X1
10	SATA		
11	SATA_PWR		
12	SATAIII		
13	CPU_FAN		
14	SYS_FAN		
15	LVDS		
16	BLT_PWR		
17	F_PANEL		
18	2*COM		
19	LPT		

Order information

MI-J1900DL V2 CPU: Intel Celeron J1900 processor,

Optional

Wi-Fi/BT Module AzureWave® AW-CB161H,

Operation System Windows 10 (64bit)

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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