



Embedded Motherboard



MI-J1900DL

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, 1 x SO-DIMM DDR3L-1333 MHz
Storage	1 x Full-size Mini-PCle 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	2 x Realtek RTL 8111H Gigabit Ethernet
Wi-Fi/BT	1 x Full-size Mini-PCle for Wi-Fi/BT
Mobile Network	3G/4G Colay with 1 x Mini-PCle for Wi-Fi/BT, 1 x SIM Slot

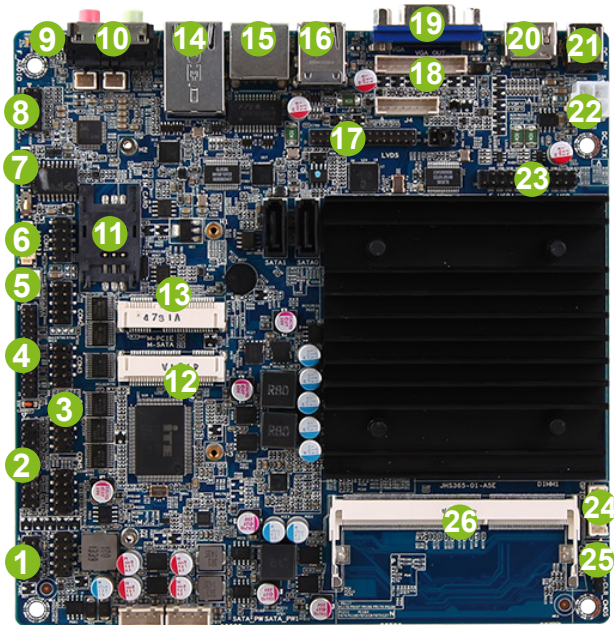
Rear I/O

USB	1 x USB3.2 Gen1, 1 x USB2.0
Display	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	2 x RJ45

Internal I/O

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

Dimensions and Drawing



No.	Dimensions	No.	Dimensions
1	F_PANEL	20	HDMI
2	TPM	21	DC_IN
3	6*COM	22	ATX
4	LPT	23	2*USB HEADER
5	SYS_FAN	24	GPIO
6	IR	25	CPU_FAN
7	SPDIF	26	SO-DIMM
8	F_AUDIO		
9	ON/OFF		
10	AUDIO_OUT, MIC_IN		
11	SIM SLOT		
12	MSATA		
13	MINI-PCIE		
14	RJ45		
15	RJ45		
16	2*USB		
17	LVDS		
18	VGA_OUT		
19	VGA		

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.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660