



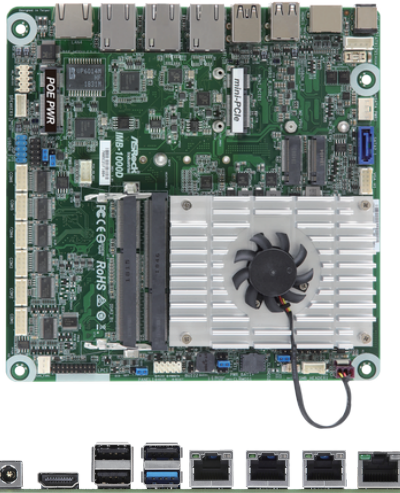
ASRock
— Industrial —



IoT Solutions
Alliance

IMB-1000D

Mini-ITX Motherboard



KEY FEATURES

- Intel® Bay Trail SoC Processor J1900
- 2 x 204-pin SO-DIMM up to 16GB DDR3L 1333 MHz (8GB per DIMM)
- 1 x Mini PCIe, 1 x USB 3.1 Gen1, 5 x USB 2.0,
2 x M.2 Key M (1 for SSD, 1 for VPU), 6 x COM, 1 x SATA2
- 1 x POE Power slot for ASRI PSE module
(Optional: LAN4 supports POE function by PSE-30W/PSE-15W)
- 2 x Intel® Gigabit LAN, 2 x Realtek Gigabit LAN
- Supports dual display, 1 x HDMI 1.4a, 1 x VGA
- TPM Header
- 12V DC-in

SPECIFICATIONS

Form Factor

Dimensions	Mini-ITX (6.7-in x 6.7-in)
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Processor System

CPU	Intel® Bay Trail SoC Processor J1900, QC, 2.00GHz, 10W
Chipset	SoC
Socket	N/A
BIOS	AMI SPI 64 Mbit

Memory

Technology	Dual Channel DDR3L 1333 MHz
Capacity	16 GB (8GB per DIMM)
Socket	2 x 204-pin SO-DIMM

Graphics

Controller	Intel® Gen7 Graphics DX 11
HDMI	HDMI 1.4a Max resolution up to 1920x1200@60Hz
DisplayPort	N/A
VGA	Max resolution up to 1920x1200@60Hz
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Dual Display

Expansion Slot

PCIe	N/A
PCI	N/A
Mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0
M.2	1 x M.2 (Key M, 2260) with PCIe x1 optional for VPU
SIM Socket	N/A
POE Power Slot	1 x POE Power slot for ASRI PSE module (Optional: LAN4 supports POE function by PSE-30W/PSE-15W)

Audio

Interface	Realtek ALC887, High Definition Audio Header
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Ethernet

Controller/ Speed	LAN1: 1 x Realtek RT8119I with 10/100/1000 Mbps LAN2: 1 x Realtek RT8119I with 10/100/1000 Mbps LAN3: 1 x Intel® I210IT with 10/100/1000 Mbps LAN4: 1 x Intel® I210IT with 10/100/1000 Mbps (Optional: LAN4 supports POE function by ASRI PSE module)
Connector	4 x RJ-45

Rear I/O

HDMI	1 x HDMI 1.4a
DisplayPort	N/A
VGA	N/A
DVI	N/A
Ethernet	4 x 1 Gigabit LAN
USB	1 x USB 3.1 (Gen1), 3 x USB 2.0
Audio	N/A
COM	N/A
PS2	N/A

Internal Connector

USB	2 x USB 2.0 (1 x 2.54 pitch header)
COM	COM1, 2 (RS-232/422/485), COM3, 4, 5, 6 (RS-232)
Parallel	N/A
GPIO	4 x GPI, 4 x GPO
TPM	TPM Header
LVDS	N/A
eDP	N/A
VGA	1
PS/2	1
SATA PWR Output	1
Speaker Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with SATA2 for SSD
mSATA	N/A
SATA	1 x SATA2 (3Gb/s)
eMMC	N/A

Watchdog Timer

Output Interval	From Super I/O to drag RESETCON# 256 Segments, 0, 1, 2, ..., 255sec
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Power Requirements

Input PWR	12V DC-In (with 4-pin wafer PWR cable or DC Jack)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

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