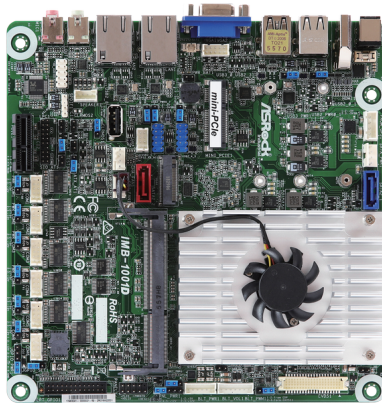**ASRock Industrial**

intel IoT Solutions Alliance

IMB-1001D
Mini-ITX Motherboard

KEY FEATURES

- Intel® Baytrail SoC Processor J1900
- 1 x 204-pin SO-DIMM up to 8GB DDR3L 1333MHz
- 1 x PCIe x1 (Gen2), 1 xUSB 3.1 Gen1, 8 x USB 2.0, 1 x mini-PCIe, 1 x M.2 Key M, 6 x COM, 2 x SATA2
- 2 x Realtek 1 Gigabit LAN
- Supports dual display, 1 x HDMI 1.4a, 1 x VGA, 1 x LVDS
- TPM Header
- 12V DC-In

SPECIFICATIONS

Form Factor

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

Processor System

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

Memory

Technology	Single Channel DDR3L 1333 MHz
Capacity	8GB
Socket	1 x 204-pin SO-DIMM

Graphics

Controller	Intel® Gen7 Graphics DX 11
HDMI	HDMI 1.4a Max resolution up to 4096x2160@24Hz
DisplayPort	N/A
VGA	Max resolution up to 1920x1200@60Hz
LVDS	Dual channel 24 bit up to 1920x1200@60Hz
eDP	N/A
DVI	N/A
MultiDisplay	Dual Display

Expansion Slot

PCIe	1 x PCIe x1 (Gen2)
PCI	N/A
mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0
M.2	N/A

Audio

Interface	Realtek ALC887, High Definition Audio. Line-out,Mic-in

Ethernet

Controller/ Speed	LAN1: 1 x Realtek RTL8111G with 10/100/1000 Mbps LAN2: 1 x Realtek RTL8111G with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O

HDMI	1 x HDMI 1.4a
DisplayPort	N/A
VGA	1 (shared with internal VGA)
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	1 x USB 3.1 (Gen1), 3 x USB 2.0
Audio	2 (Mic-in, Line-out)
COM	N/A
PS2	N/A

Internal Connector

USB	5 x USB 2.0 (2 x 2.54 pitch header, 1 x USB 2.0 Type-A vertical con)
COM	COM1, 2, 4, 5, 6(RS-232), COM3 (RS-232/422/485)
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO (shared with LPT header)
TPM	TPM Header
LVDS	1
eDP	N/A
VGA	1 x Header (shared with VGA port)
SATA PWR Output	1
Speaker Header	1

Storage

M.2	1x M.2 (Key M, 2242/2260/2280) with shared SATA2 for SSD
mSATA	N/A
SATA	2 x SATA2 (3Gb/s), SATA2_2 shared with M.2 Key M
eMMC	N/A

Watchdog Timer

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

Power Requirements

Input PWR	12V DC-In (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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