



IMB-1002J

Mini-ITX Motherboard

Key Features

- Intel® Apollo Lake SoC Processor J3455
- Supports Dual Channel DDR3L SO-DIMM 1867MHz, up to 16GB
- 2 x HDMI, 1 x LVDS
- 4 x USB 3.1, 4 x USB 2.0, 1 x SATA3, 4 x COM
- 1 x PCIe x1, 1 x M.2 Key E, 1 x M.2 Key B, 1 x M.2 Key M
- 2 x Realtek LAN
- 1 x TPM Header
- +12V DC-In (4-pin ATX PWR Con)

Specifications

Processor System

Dimensions	Mini-ITX (6.7-in x 6.7-in)
CPU	J3455, QC, 1.50 GHz, 10W
Chipset	SOC

Expansion Slot

PCIe	1 x PCIe x1
mini-PCIe	N/A
M.2	1 x M.2 (KEY E, 2230) with PCIe x1 and shared USB2.0 for Wireless 1 x M.2 (KEY M, 2242/2260/2280) with SATA3 for SSD 1 x M.2 (KEY B, 3042) with shared USB2.0 and SIM for 4G
mSATA	N/A

Memory

Technology	Dual Channel DDR3L 1867 MHz
Max	16GB
Socket	2 x SO-DIMM

Graphics

Controller	Intel® HD Graphics
VGA	N/A
LVDS	Dual Channel 24-bit, max resolution up to 1920 x 1200@60Hz
eDP	N/A
HDMI	Supports max resolution up to 4096 x 2160@24Hz
DVI	N/A
DisplayPort	N/A
Multi Display	Triple Display

Ethernet

Interface	10/100/1000 Mbps
Controller	2 x Realtek RTL8111G

Watchdog Timer

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

Rear I/O

VGA	N/A
DVI	N/A
HDMI	2
DisplayPort	N/A
Ethernet	2
USB	4 x USB 3.1
Audio Jack	2 (Mic-in. Line-out)
Serial	1 x COM (RS-232/422/485), 1 x COM (RS-232)
PS/2	N/A

Internal Connector

USB	4 x USB 2.0 (1 x shared with M.2 Key E, 1 x shared with M.2 Key B)
LVDS	1
eDP	N/A
VGA	N/A
Serial	2 x COM (RS-232)
SATA	1 x SATA3 (6.0Gb/s)
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO (shared with LPT header)
SATA PWR Output Con	1
Speaker Header	1
TPM	1 x TPM Header
SIM	1 x Socket connected to M.2 Key_B

Power Requirements

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

Environment

Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C