



IMB-1213

Mini-ITX Motherboard

Spotlight Features

- Socket LGA 1151 for Intel Core i7/i5/i3/Celeron
- Supports Dual Channel DDR4 SO DIMM 2400/2666, up to 32GB
- 3 x Displayport, 1 x eDP, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.1 Gen2, 4 xUSB 2.0, 2 x SATA3, 4 x COM
- 1 x PCIe x16, 1 x mini-PCIe, 1 x M.2 Key E ,1 x M.2 Key M
- 2 x Intel LAN
- 1 x TPM 2.0 IC
- 12V/19~28V 4-pin DC-in
- Supports RAID function

Specifications

Processor System

Dimensions	Mini-ITX (6.7-in x 6.7-in)
CPU	Socket LGA 1151 for Intel Core i7/i5/i3/Celeron
Chipset	Intel® Q370

Expansion Slot

PCIe	1 x PCIe x16 (Support riser card)
Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
M.2	1x M.2 (Key E, 2230) with PCIe x1,CNV1 and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD
mSATA	N/A

Memory

Technology	Dual Channel DDR4 2400/2666MHz
Max	32GB
Socket	2 x SO-DIMM

Graphics

VGA	N/A
DVI	N/A
LVDS	Dual Channel 24-bit, max resolution up to 1920x1200@60Hz
eDP	Max resolution up to 4096x2304@60Hz
HDMI	N/A
DisplayPort	Max resolution up to 4096x2304@60Hz
Multi Display	Triple Display

Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel I210, 1 x Intel I219LM

Rear I/O

VGA	N/A
DVI	N/A
HDMI	N/A
DisplayPort	3
Ethernet	2
USB	4 x USB 3.1 Gen2 (10Gb/s)
Serial	N/A
Audio Jack	2 (Mic-in, Line-out)
PS/2	N/A

Internal Connector

USB	4 x USB2.0
LVDS	1 (shared with eDP use jumper switch)
eDP	1
VGA	N/A
Serial	2 x COM (RS-232/422/485), 2 x COM(RS-232)
SATA	2 x SATA3 (6.0Gb/s)
GPIO	4 x GPI, 4 x GPO
SATA PWR Output Con	1
Speaker Header	1
TPM	1 x Onboard TPM 2.0 IC

Watchdog Timer

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

Power Requirements

Input PWR	12V/19~28V 4-pin DC-in
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 Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C