



# 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 (Supports up to 65W) |
| 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, CNVI and USB2.0 for Wireless<br>1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD (Bottom) |
| 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 (Bottom)                                |
| 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<br>AT : Directly PWR on as Power input ready<br>ATX: Press Button to PWR on after Power input ready |

#### Environment

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