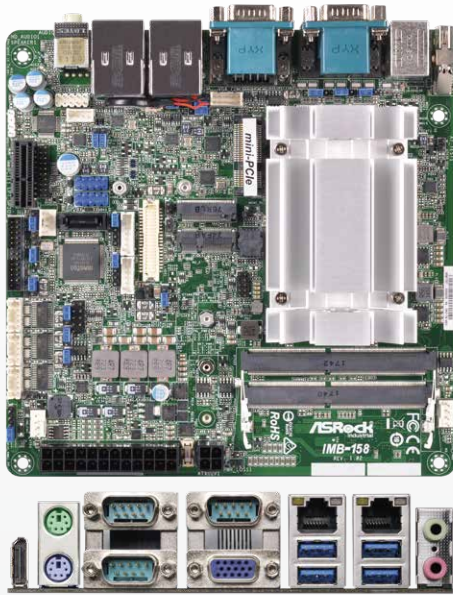




IMB-158

Mini-ITX Motherboard



Spotlight Features

- BGA1090 for Intel Gemini Lake
- Supports Dual Channel DDR4 SO DIMM 2400, up to 8GB
- 1 x Displayport, 1 x VGA, 1 x Dual Channel 24-bit LVDS (eDP by BOM option)
- 4 x USB 3.0, 4 x USB 2.0, 1 x SATA3, 6 x COM
- 1 x PCIe x1, 1 x mini-PCIe, 1 x M.2 Key E, 1 x M.2 Key M
- 2 x Realtek LAN
- 1 x TPM Header
- 12V/19~28V DC-in (20+4-pin ATX PWR Con.)

Specifications

| Processor System | |
|------------------|-----------------------------------|
| Dimensions | Mini-ITX (6.7-in x 6.7-in) |
| CPU | BGA1090 for Intel Gemini Lake SoC |
| Chipset | N/A |

| Expansion Slot | |
|----------------|--|
| PCIe | 1 x PCIe x1 |
| mini-PCIe | 1 x full/half size with PCIe x1 and USB2.0 |
| M.2 | 1 x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1 x M.2 (Key M, 2242/2260/2280) with SATA3 for SSD |

| Memory | |
|------------|----------------------------|
| Technology | Dual Channel DDR4 2400 MHz |
| Max | 8 GB |
| Socket | 2 x SO-DIMM |

| Graphics | |
|---------------|---|
| VGA | Supports max resolution up to 1920x1200 |
| DVI | N/A |
| LVDS | Dual Channel 24-bit, max resolution up to 1920x1200@60Hz |
| eDP | Max resolution up to 4096x2160@60Hz(Bom option with LVDS) |
| HDMI | N/A |
| DisplayPort | Max resolution up to 4096x2160@60Hz |
| Multi Display | Triple Display |

| Ethernet | |
|------------|----------------------|
| Interface | 10/100/1000 Mbps |
| Controller | 2 x Realtek RTL8111H |

| Rear I/O | |
|-------------|-----------------------------|
| VGA | 1 |
| DVI | N/A |
| HDMI | N/A |
| DisplayPort | 1 |
| Ethernet | 2 |
| USB | 4 x USB3.0 |
| Audio Jack | 2 (Mic-in. Line-out) |
| Serial | 3 x COM (RS-232/422/485) |
| PS/2 | 2 (1 x keyboard, 1 x mouse) |

| Internal Connector | |
|---------------------|--------------------------|
| USB | 4 x USB2.0 (2 x headers) |
| LVDS | 1 |
| eDP | 1 (BOM option with LVDS) |
| VGA | 1 (shared with VGA Con.) |
| Serial | 3 x COM(RS-232) |
| SATA | 1 x SATA3 (6.0Gb/s) |
| Parallel | 1 (shared with GPIO) |
| GPIO | 8 x GPI, 8 x GPO |
| SATA PWR Output Con | N/A |
| Speaker Header | 1 |
| TPM | 1 x header |

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

| Power Requirements | |
|--------------------|---|
| Input PWR | 12V/19V~28V DC-in (20+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 | |
|-----------------------|--------------|
| Operating Temperature | 0°C – 60°C |
| Storage Temperature | -40°C – 85°C |