



IMB-1210-L/ IMB-1210-D

Mini-ITX Motherboard

KEY FEATURES

- Intel® 9th/ 8th Gen (Coffee Lake-S) Core™ Processors with H310 chipset
- 2 x 260-pin SO-DIMM up to 64GB* DDR4 2666MHz
- 1 x PCIe x16 (Gen3), 4 x USB 3.1 Gen1, 4 x USB 2.0, 1 x mini-PCIe, 1 x M.2 Key E, 1 x M.2 Key M, 4 x COM, 4 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports dual display, 2 x DP 1.2, 1 x VGA, 1 x LVDS (IMB-1210-L)
- Supports dual display, 3 x DP 1.2, 1 x eDP (IMB-1210-D)
- TPM header
- ATX PWR



IMB-1210-L

IMB-1210-D

SPECIFICATIONS

| Form Factor | IMB-1210-L | IMB-1210-D |
|-------------|----------------------------|------------|
| Dimensions | Mini-ITX (6.7-in x 6.7-in) | |

Processor System

| | |
|---------|--|
| CPU | Intel® 9 th / 8 th Gen (Coffee Lake-S) Core™ Processors, up to 65W *The Performance of CPUs over 65W will be limited due to power design. |
| Chipset | Intel® H310 |
| Socket | LGA1151 |
| BIOS | AMI SPI 128 Mbit |

Memory

| | |
|------------|---|
| Technology | Dual Channel DDR4 2666 MHz |
| Capacity | 64GB* * Intel Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel Core i3/Pentium/Celeron CPUs support up to 32GB (16GB per DIMM) |
| Socket | 2 x 260-pin SO-DIMM |

Graphics

| | | |
|--------------|--|--|
| Controller | Coffee Lake integrated graphics | |
| HDMI | N/A | |
| DisplayPort | DisplayPort 1.2, DP++ Max resolution up to 4096x2304@60Hz | |
| VGA | Max resolution up to 1920x1200@60Hz | N/A |
| LVDS | Dual channel 24 bit up to 1920x1200@60Hz | N/A |
| eDP | N/A | eDP 1.4 Max resolution up to 4096x2304@60Hz |
| DVI | N/A | |
| MultiDisplay | Dual Display | |

Expansion Slot

| | |
|------------|---|
| PCIe | 1 x PCIe x16 (Gen3) |
| PCI | N/A |
| mini-PCIe | 1 x Full/Half size with PCIe x1 and USB 2.0 |
| M.2 | 1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless |
| SIM Socket | N/A |

Audio

| | |
|-----------|---|
| Interface | Realtek ALC887/897, High Definition Audio. Line-out, Mic-in |
|-----------|---|

Ethernet

| | |
|-------------------|---|
| Controller/ Speed | LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219V with 10/100/1000 Mbps |
| Connector | 2 x RJ-45 |

| Rear I/O | IMB-1210-L | IMB-1210-D |
|-------------|--------------------------------------|------------|
| HDMI | N/A | |
| DisplayPort | 2 x DP 1.2 | 3 x DP 1.2 |
| VGA | 1 | N/A |
| DVI | N/A | |
| Ethernet | 2 x 1 Gigabit LAN | |
| USB | 4 x USB 3.1 (Gen1) | |
| Audio | 2 (Mic-in, Line-out) | |
| COM | COM3(RS-232/422/485) COM4(RS-232) | |
| PS2 | N/A | |

Internal Connector

| | | |
|-----------------|------------------------------------|-----|
| USB | 4 x USB 2.0 (2 x 2.00pitch header) | |
| COM | COM1, 2(RS232) | |
| Parallel | N/A | |
| GPIO | 4 x GPI, 4 x GPO | |
| TPM | TPM Header | |
| LVDS | 1 | N/A |
| eDP | N/A | 1 |
| VGA | N/A | |
| SATA PWR Output | N/A | |
| Speaker Header | 1 | |

Storage

| | |
|-------|---|
| M.2 | 1 x M.2 (Key M, 2242/2260/2280) with shared SATA3 for SSD |
| mSATA | N/A |
| SATA | 4 x SATA3 (6Gb/s), SATA3_1 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

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|-----------|---|
| Input PWR | ATX PWR (24+4-pin) |
| 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% |