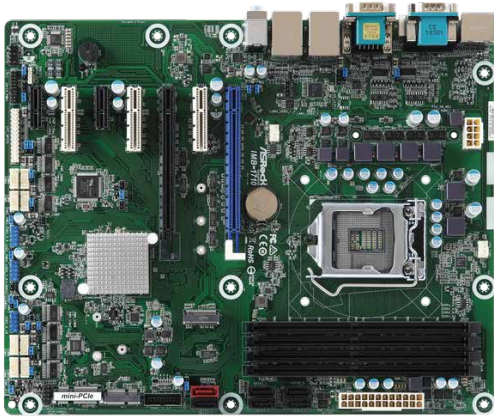




IMB-1710

ATX Motherboard



KEY FEATURES

- Intel® 9th/ 8th Gen (Coffee Lake-S) Core™ Processors with Q370 chipset
- 4 x 288-pin Long-DIMM up to 128GB* DDR4 2666 MHz
- 1 x PCIe x16 (Gen3), 1 x PCIe x8 (Gen3), 3 x PCIe x4 (Gen3), 2 x PCIe x1 (Gen3), 6 x USB 3.1 Gen1, 6 x USB 2.0, 1 x M.2 Key E, 1 x mini-PCIe, 1 x M.2 Key M, 10 x COM, 6 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports triple display, 1 x HDMI 1.4, 2 x DP 1.2, 1 x VGA
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR

SPECIFICATIONS

Form Factor

| | |
|------------|----------------------|
| Dimensions | ATX (12-in x 9.6-in) |
|------------|----------------------|

Processor System

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|---------|--|
| CPU | Intel® 9 th / 8 th Gen (Coffee Lake-S) Core™ Processors, up to 95W |
| Chipset | Intel® Q370 |
| Socket | LGA1151 |
| BIOS | AMI SPI 128 Mbit |

Memory

| | |
|------------|---|
| Technology | Dual Channel DDR4 2666 MHz |
| Capacity | 128GB* * Intel Core i9/i7/i5 CPUs support up to 128GB (32GB per DIMM) Intel Core i3/Pentium/Celeron CPUs support up to 64GB (16GB per DIMM) |
| Socket | 4 x 288-pin Long-DIMM |

Graphics

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|--------------|--|
| Controller | Coffee Lake integrated graphics |
| HDMI | HDMI 1.4 Max resolution up to 4096x2160@24Hz |
| DisplayPort | DisplayPort 1.2, DP++ Max resolution up to 4096x2304@60Hz |
| VGA | Max resolution up to 1920x1200@60Hz |
| LVDS | N/A |
| eDP | N/A |
| DVI | N/A |
| MultiDisplay | Triple Display |

Expansion Slot

| | |
|-----------|---|
| PCIe | -3 x PCIe 3.0 Slots (PCIe1/PCIe2/PCIe3: single at x16 (PCIe1); dual at x8 (PCIe1) / x8 (PCIe3); triple at x8 (PCIe1) / x4 (PCIe2) / x4 (PCIe3)) -2 x PCIe 3.0 x4 Slots (PCIe4) (PCIe6) -2 x PCIe 3.0 x1 Slots (PCIe5) (PCIe7) |
| 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 |

Audio

| | |
|-----------|---|
| Interface | Realtek ALC887/ALC897, High Definition Audio. Line-out, Mic-in, Line-in |
|-----------|---|

Ethernet

| | |
|-------------------|---|
| Controller/ Speed | LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro |
| Connector | 2 x RJ-45 |

Rear I/O

| | |
|-------------|-------------------------------|
| HDMI | 1 x HDMI 1.4 |
| DisplayPort | 2 x DP 1.2 |
| VGA | 1 |
| DVI | N/A |
| Ethernet | 2 x 1 Gigabit LAN |
| USB | 4 x USB 3.1 (Gen1) |
| Audio | 3 (Mic-in, Line-in, Line-out) |
| COM | COM1, 2(RS-232/422/485) |
| PS2 | 1 |

Internal Connector

| | |
|-----------------|--|
| USB | 2 x USB 3.1 (Gen1) (1 x USB 3.1 header) 6 x USB 2.0 (3 x 2.54 pitch header) |
| COM | COM3, 4, 5, 6, 7, 8, 9, 10 (RS-232) |
| Parallel | 1 (shared with GPIO) |
| GPIO | 8 x GPI, 8 x GPO (shared with LPT header) |
| TPM | TPM 2.0 onboard IC |
| LVDS | N/A |
| eDP | N/A |
| VGA | N/A |
| SATA PWR Output | N/A |
| Speaker Header | 1 |

Storage

| | |
|-------|---|
| M.2 | 1 x M.2 (Key M, 2242/2260/2280) with PCIe x4 and shared SATA3 for SSD |
| mSATA | N/A |
| SATA | 6 x SATA3 (6Gb/s), SATA3_1 shared with M.2 Key M |
| RAID | Intel® SATA RAID 0/1/5/10 |
| 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+8-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% |