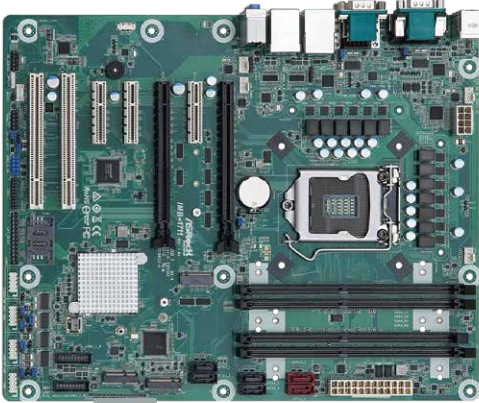


IMB-1711 / IMB-X1711

ATX Motherboard

KEY FEATURES



- Intel® 10th Gen (Comet Lake-S) Core™ Processors with Q470E chipset (IMB-1711)
- Intel® 10th Gen (Comet Lake-S) Core™ Processors with W480E chipset (IMB-X1711)
- 4 x 288-pin Long-DIMM DDR4 2933 MHz , up to 128GB (32GB per DIMM) (IMB-1711)
- 4 x 288-pin ECC/non-ECC Long-DIMM DDR4 2933 MHz, up to 128GB (32GB per DIMM) (IMB-X1711)
- 1 x PCIe x16 (Gen3), 1 x PCIe x8 (Gen3), 3 x PCIe x4 (Gen3), 2 x PCI, 4 x USB.3.2 Gen2, 4 x USB 3.2 Gen1, 4 x USB 2.0,
- 1 x M.2 Key E, 1 x M.2 Key M, 1 x M.2 Key B, 6 x COM, 6 x SATA3
- 1 x Intel 2.5 Gigabit LAN, 1 x Intel 1 Gigabit LAN
- Supports Triple display, 1 x HDMI 2.0b, 1 x DP1.2, 1 x VGA
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, VMD RAID 0/1/5/10
- ATX PWR (8+24 Pin)

SPECIFICATIONS

| Form Factor | IMB-1711 | IMB-X1711 |
|-------------------------|---|--------------|
| Dimensions | ATX (12-in x 9.6-in x 1.4-in, 30.5 cm x 24.4 cm x 3.6 cm) | |
| Processor System | | |
| CPU | Intel® 10th Gen (Comet Lake-S) Core™ Processors, up to 125W | |
| Chipset | Intel® Q470E | Intel® W480E |
| Socket | LGA1200 | |
| BIOS | AMI SPI 256 Mbit | |

| Memory | IMB-1711 | IMB-X1711 |
|------------|----------------------------|--|
| Technology | Dual Channel DDR4 2933 MHz | Dual Channel ECC/non-ECC DDR4 2933 MHz |
| Capacity | 128GB (32GB per DIMM) | |
| Socket | 4 x 288-pin Long-DIMM | |

| Graphics | IMB-1711 | IMB-X1711 |
|--------------|--|-----------|
| Controller | Intel® UHD Graphics | |
| HDMI | HDMI 2.0a Max resolution up to 4096x2160@60Hz | |
| DisplayPort | DisplayPort 1.2, DP++ Max resolution up to 4096x2160@60Hz | |
| VGA | Max resolution up to 1920x1200@60Hz | |
| MultiDisplay | Triple Display | |

| Expansion Slot | IMB-1711 | IMB-X1711 |
|----------------|---|-----------|
| PCIe | 3 x PCIe Gen3 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 x4 (Gen3) | |
| PCI | 2 x PCI | |
| M.2 | 1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe x1, USB3.2 Gen1, USB 2.0 and SIM for 4G/5G | |
| SIM Socket | 1x SIM socket connected to M.2 key B | |

| Audio | IMB-1711 | IMB-X1711 |
|-----------|---|-----------|
| Interface | Realtek ALC897/ALC887, High Definition Audio. Line-in, Line-out, Mic-in | |

| Ethernet | IMB-1711 | IMB-X1711 |
|-------------------|---|-----------|
| Controller/ Speed | LAN1: Intel® I225LM/I225V with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, support AMT/vPro | |
| Connector | 2 x RJ-45 | |

| Rear I/O | IMB-1711 | IMB-X1711 |
|-------------|--|-----------|
| HDMI | 1 x HDMI 2.0a | |
| DisplayPort | 1 x DP 1.2++ | |
| VGA | 1 | |
| Ethernet | 1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN | |
| USB | 4 x USB 3.2 Gen2 2 x USB 2.0 | |
| Audio | 3 (Mic-in, Line-in, Line-out) | |
| COM | COM1, COM2 (RS-232/422/485) | |

| Internal Connector | IMB-1711 | IMB-X1711 |
|--------------------|---|-----------|
| USB | 4 x USB 3.2 Gen1 (2 x USB 3.1 header) 2 x USB2.0 (1x2.54 pitch header) | |
| COM | COM3, COM4, COM5, COM6 (RS-232) | |
| Parallel | 1 (shared with GPIO) | |
| GPIO | 8 x GPI, 8 x GPO, (shared with LPT header) | |
| TPM | TPM 2.0 onboard | |

| Storage | IMB-1711 | IMB-X1711 |
|---------|---|-----------|
| M.2 | 1 x M.2 (Key M, 2242/2260/2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5/ SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available | |
| mSATA | 6 x SATA3 (6Gb/s) | |
| SATA | Intel® SATA RAID 0/1/5/10 | |

| Watchdog Timer | IMB-1711 | IMB-X1711 |
|----------------|----------------------------------|-----------|
| Output | From Super I/O to drag RESETCON# | |
| Interval | 256 Segments, 0, 1, 2, ...255sec | |

| Power Requirements | IMB-1711 | IMB-X1711 |
|--------------------|---|-----------|
| Input PWR | ATX PWR (8+24 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 | IMB-1711 | IMB-X1711 |
|--------------------|--------------|-----------|
| Operating Temp | 0°C ~ 60°C | |
| Storage Temp | -40°C ~ 85°C | |
| Operating Humidity | 5% ~ 90% | |
| Storage Humidity | 5% ~ 90% | |