IMB523

ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor,
Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LANs, VGA, DP, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 6 SATA-600 with RAID 0/1/5/10
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

Core System

- CPU: LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
- System Memory: 4 x 288-pin DDR4-2666/2400 DIMM, up to 64GB
- Chipset: Intel® Q370
- BIOS: AMI BIOS
- SSD: N/A
- Watchdog Timer: 255 levels, 1 to 255 sec.
- Expansion Interface: 1 x PCIe x16 slot, 2 x PCIe x4 slot, 4 x PCI slot
- Battery: Lithium 3 V/220 mAH
- Dimensions: 305 x 244 mm
- Board Thickness: 1.6 mm
- Operating Temperature: 0°C to +60°C (+32°F to +140°F)
- Humidity: 10% to 95% relative humidity, non-condensing

I/O

- SATA: 6 x SATA-600 with RAID 0/1/5/10
- Hardware Monitoring: Detect CPU/system temperature, voltage and supports Smart fan control
- Ethernet: 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM, supports Wake-on-LAN, PXE Boot ROM, iAMT
- 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT, supports Wake-on-LAN, PXE Boot ROM
- Audio: HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
- USB: 2 x USB 3.1 Gen2 (rear IO), 4 x USB 3.1 Gen1 (rear IO, internal box header), 7 x USB 2.0 (pin header, 1900D type A)
- Serial: 4 x RS-232 (internal box header), 2 x RS-232/422/485 (COM 1: rear I/O, COM 2: internal box header)
- PS/2 Combo Port: 1 x PS/2 keyboard and mouse
- TPM: TPM 2.0 (optional)
- SMBus: Yes
- Digital I/O: 8-channel programmable

Display

- Graphic: Intel® HD Graphic
- Memory Size: Share system memory
- Display Interface: 1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort

Ordering Information

Standard

- IMB523: ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LANs, VGA, DP, DVI-D and HDMI

Optional

- 5938A808010E: 2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
- 5938A808020E: 2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
- 5948C122800E: 2 x USB 3.1 Gen1 cable with bracket, L=400 mm
- 59380000290E: PS/2 keyboard & mouse cable with bracket
- 593826A0000E: SATA signal cable/red, L=500 mm
- 59384501010E: Audio cable with bracket, P=2.0 mm, L=450 mm
- 59380402010E: 1 x COM port cable with bracket, P=2.54 mm, L=300 mm
- 59382500000E: 2 x COM port cable with bracket, P=2.54 mm, L=300 mm
- 59393515100E: TPM 2.0 module (AX93515)