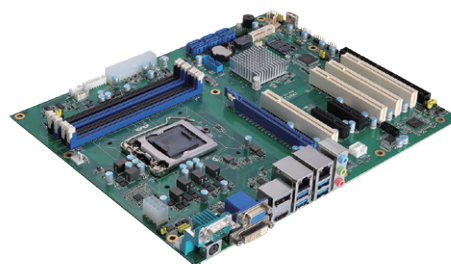
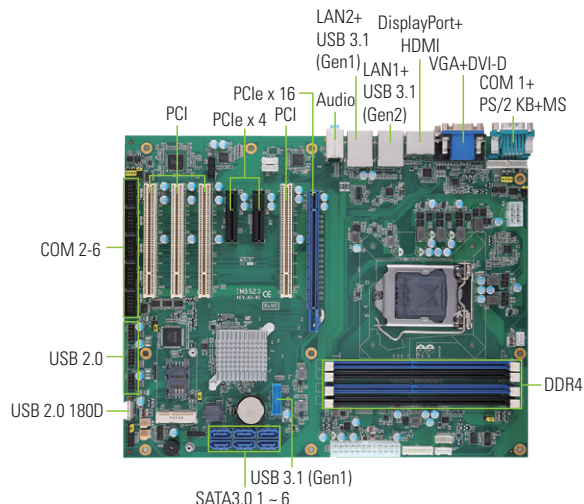


IMB523

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

Features

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



▲ Side view



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 |
| Watchdog Timer | 255 levels, 1 ~ 255 sec. |
| Expansion Interface | 1 x PCIe x16 slot 2 x PCIe x4 slot 4 x PCI slot |
| Battery | Lithium 3 V/ 220 mAh |
| Size/Weight | 305 x 244 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C ~ +60°C (+32°F ~ +140°F) |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x PS/2 keyboard & mouse 4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear IO; COM 2: internal box header) |
| SATA | 6 x SATA-600 with RAID 0/1/5/10 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and supports Smart fan control |
| Ethernet | 1st port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM, iAMT with Intel® i219-LM 2nd port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211-AT |
| 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, 180D type A) |
| TPM | Optional |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels 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 DP |

Ordering Information

Standard

| | |
|--------|---|
| IMB523 | ATX industrial 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, and VGA/DP/DVI-D/HDMI |
|--------|---|

Optional

| | |
|--------------|--|
| 59380402010E | COM port x 1 cable w/ bracket |
| 59380703000E | COM port x 2 cable w/ bracket, P=2.54 mm, L=300 mm |
| 593826A0000E | SATA signal cable 500mm/red |
| 59384500100E | Audio cable w/ bracket, P=2.0 mm, L=450 mm |
| 5938A808010E | USB x 2 cable w/ bracket, 2 x 5 (10P-KEY) |
| 83935151000E | TPM module |