

IMB523

ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, 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
- 1 PCI Express Mini Card slot (optional)
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

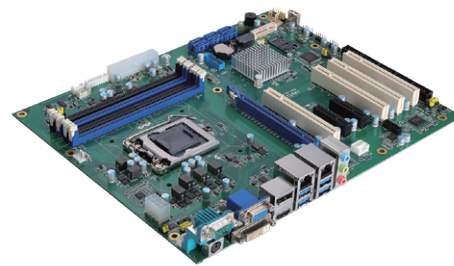
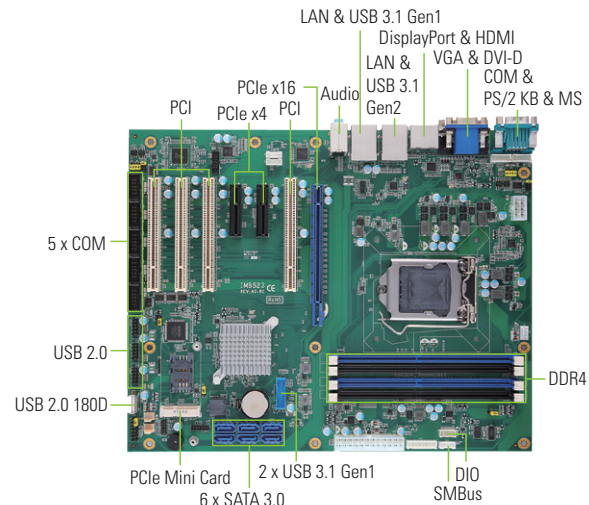


Core System

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 (w/o bifurcation) 2 x PCIe x4 slot 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0 (optional)
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 I/O) 4 x USB 3.1 Gen1 (rear I/O, internal box header) 7 x USB 2.0 (pin header, 180D 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



▲ Side view

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/DHGA-Q370 (P/N: E38F523101)	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 LAN, VGA, DisplayPort, 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
59384500100E	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
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

Mouser Electronics

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