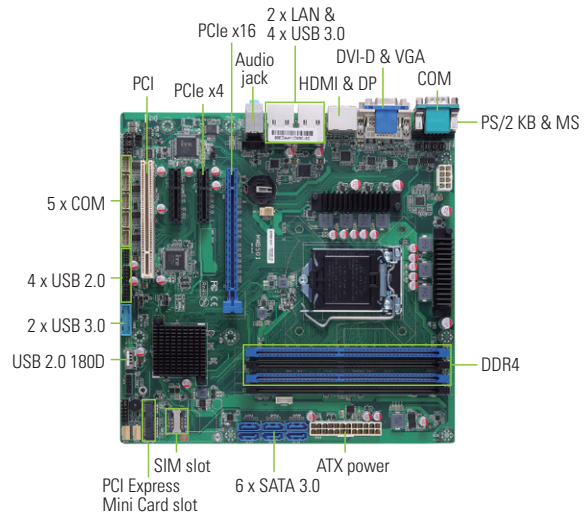


# MMB501

Micro ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI

## Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Four 288-pin DDR4-2133/2400 DIMM for up to 64GB of memory
- DisplayPort, VGA, DVI-D and HDMI with triple-view supported
- 6 SATA-600 with RAID 0/1/5/10
- 6 USB 3.0 and 5 USB 2.0

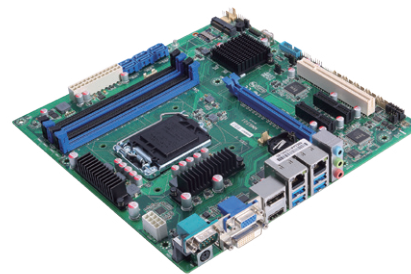


## Core System

|                       |  |
|-----------------------|--|
| CPU                   | LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor                            |
| System Memory         | 4 x 288-pin DDR4-2133/2400 DIMM, up to 64GB  |
| Chipset               | Intel® Q170  |
| BIOS                  | AMI BIOS   |
| SSD                   | N/A  |
| Watchdog Timer        | 255 levels, 1 to 255 sec.  |
| Expansion Interface   | 1 x PCIe x16 slot<br>2 x PCIe x4 slot<br>1 x PCI slot<br>1 x Full-size PCI Express Mini Card with SIM slot |
| Battery               | Lithium 3 V/ 220 mAh   |
| Dimensions            | 244 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® i219LM; supports Wake-on-LAN, PXE Boot ROM, iAMT<br>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                 | 6 x USB 3.0 (4 ports on rear I/O; 2 internal box headers)<br>5 x USB 2.0 (4 ports form internal pin header; 1 USB 180D Type A)  |
| Serial              | 4 x RS-232 (Internal 2.0 pitch wafer)<br>1 x RS-232/422/485 (rear I/O)<br>1 x RS-232/422/485 (Internal 2.0 pitch wafer)   |
| 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<br>1 x DVI-D<br>1 x HDMI<br>1 x DisplayPort |

## Ordering Information

| Standard                 |  |
|--------------------------|--|
| MMB501 (P/N: E38W501101) | Micro ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q170, USB 3.0, 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        |
| 594M5002100E  | 2 x COM port with bracket, P=2.0 mm, L=300 mm       |
| 893935151000E | TPM 2.0 module (AX93515)                            |

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