

# IMB501

ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® H110, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA

## Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Two 288-pin DDR4-2400/2133/1866 DIMM for up to 32GB of memory
- DisplayPort, HDMI and VGA with dual-view supported
- 3 SATA-600 and 1 mSATA
- 4 USB 3.0 and 4 USB 2.0
- 1 PCI Express Mini Card slot



### Core System

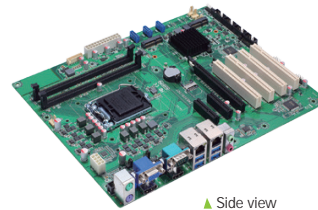
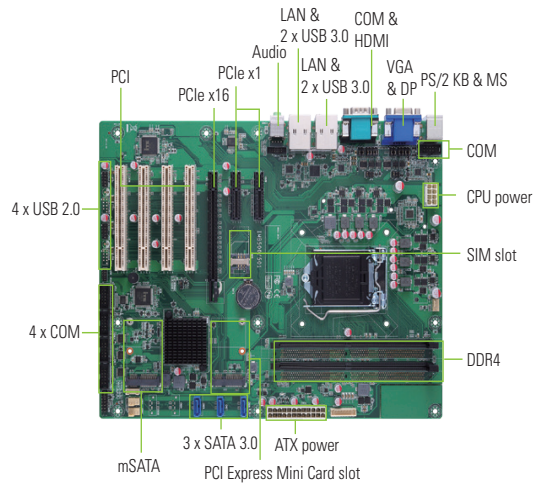
CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	2 x 288-pin DDR4-2400/2133/1866 DIMM, up to 32GB
Chipset	Intel® H110
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot (only support x1 signal) 4 x PCI slot 1 x PCI Express Mini Card slot 1 x SIM 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	3 x SATA-600 1 x mSATA
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 4 x USB 2.0
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear IO, COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	N/A
SMBus	Yes
Digital I/O	8-channel programmable

### Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x HDMI 1 x VGA



▲ Side view

### Ordering Information

#### Standard

IMB501 (P/N: E38F501101)	ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® H110, USB 3.0, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, HDMI and mSATA
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#### 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
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

### Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i7-7700 Processor	3.6 GHz	8 MB	4	65 W
Intel® Core™ i7-7700T Processor	2.9 GHz	8 MB	4	35 W
Intel® Core™ i7-6700K Processor	4.0 GHz	8 MB	4	91 W
Intel® Core™ i7-6700 Processor	3.4 GHz	8 MB	4	65 W
Intel® Core™ i7-6700TE Processor	2.4 GHz	8 MB	4	35 W
Intel® Core™ i5-7500 Processor	3.4 GHz	6 MB	4	65 W
Intel® Core™ i5-7500T Processor	2.7 GHz	6 MB	4	35 W
Intel® Core™ i5-6500 Processor	3.2 GHz	6 MB	4	65 W
Intel® Core™ i5-6500TE Processor	2.3 GHz	6 MB	4	35 W
Intel® Core™ i3-7100 Processor	3.9 GHz	3 MB	2	51 W
Intel® Core™ i3-7101TE Processor	3.4 GHz	3 MB	2	35 W
Intel® Core™ i3-6100 Processor	3.7 GHz	3 MB	2	51 W
Intel® Core™ i3-6100TE Processor	2.7 GHz	4 MB	2	35 W
Intel® Celeron® G4620 Processor	3.7 GHz	3 MB	2	51 W
Intel® Celeron® G4400 Processor	3.3 GHz	3 MB	2	54 W
Intel® Celeron® G4400TE Processor	2.4 GHz	3 MB	2	35 W
Intel® Celeron® G3950 Processor	3.0 GHz	2 MB	2	51 W
Intel® Celeron® G3900TE Processor	2.3 GHz	2 MB	2	35 W

## Assured Systems

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