

OMT523R NEW

ATX Motherboard with LGA1151 Socket 9th/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 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 DIMM for up to 128GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)



Core System

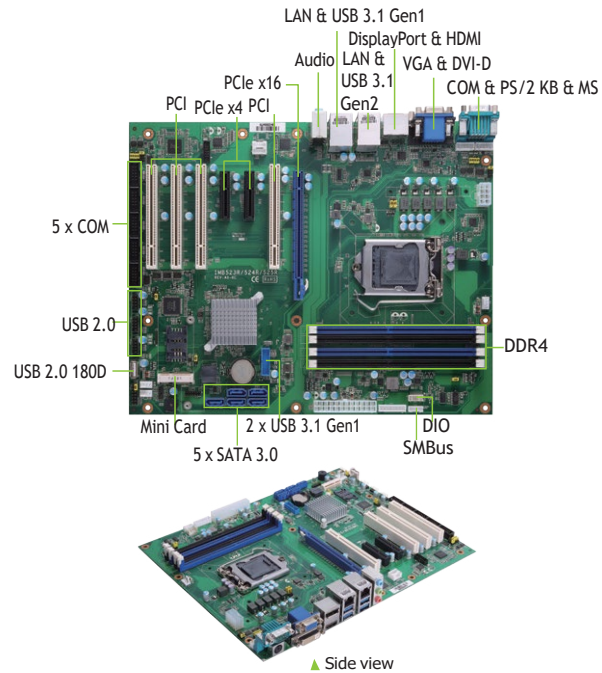
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|-----------------------|--|
| CPU | LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (up to 95W) |
| System Memory | 4 x 288-pin DDR4-2666/2400 DIMM, up to 128GB |
| Chipset | Intel® Q370 |
| BIOS | AMI BIOS |
| Watchdog Timer | 255 levels, 1 to 255 sec. |
| Expansion Interface | 1 x PCIe x16 slot 2 x PCIe x4 slot 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0 & SATA |
| Battery | Lithium 3 V/ 220 mA |
| 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 | 5 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, 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 |

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

| | |
|---------------------------------------|---|
| OMT523RVDHGGGA-Q370 (P/N: E38F523103) | ATX motherboard with LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LANs, VGA, DisplayPort++, DVI-D and HDMI |
|---------------------------------------|---|

Optional

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|--------------|--|
| 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) |
| 5076E510000E | CPU heatsink for 1U chassis (AX61135TM) |
| 50761222000E | CPU cooler for 2U, 4U, and wall mount chassis |

Processor List

| CPU | Speed | Cache | Cores | TDP |
|---------------------------------------|---------|-------|-------|------|
| Intel® Core™ i9-9900K Processor | 3.6 GHz | 16 MB | 8 | 95 W |
| Intel® Core™ i7-9700TE Processor | 1.8 GHz | 12 MB | 8 | 35 W |
| Intel® Core™ i7-8700K Processor | 3.7 GHz | 12 MB | 6 | 95 W |
| Intel® Core™ i7-8700 Processor | 3.2 GHz | 12 MB | 6 | 65 W |
| Intel® Core™ i7-8700T Processor | 2.4 GHz | 12 MB | 6 | 65 W |
| Intel® Core™ i5-9500E Processor | 3.0 GHz | 9 MB | 6 | 65 W |
| Intel® Core™ i5-9500TE Processor | 2.2 GHz | 9 MB | 6 | 35 W |
| Intel® Core™ i5-9400 Processor | 2.9 GHz | 9 MB | 6 | 65 W |
| Intel® Core™ i5-8400 Processor | 2.8 GHz | 9 MB | 6 | 65 W |
| Intel® Core™ i5-8500T Processor | 2.1 GHz | 9 MB | 6 | 35 W |
| Intel® Core™ i3-9100 Processor | 3.6 GHz | 6 MB | 4 | 65 W |
| Intel® Core™ i3-9100E Processor | 3.1 GHz | 6 MB | 4 | 65 W |
| Intel® Core™ i3-9100TE Processor | 2.2 GHz | 6 MB | 4 | 35 W |
| Intel® Core™ i3-8100 Processor | 3.6 GHz | 6 MB | 4 | 65 W |
| Intel® Core™ i3-8100T Processor | 3.1 GHz | 6 MB | 4 | 35 W |
| Intel® Pentium® Gold G5400T Processor | 3.1 GHz | 4 MB | 2 | 35 W |
| Intel® Celeron® G4900T Processor | 2.9 GHz | 2 MB | 2 | 35 W |