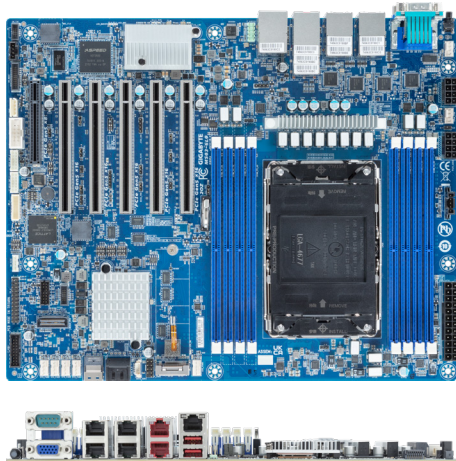


# MS03-6L0

## ATX Server Motherboard



### Features

- 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Single processor, LGA4677
- 8-Channel RDIMM DDR5, 8 x DIMMs
- Intel® C741 Chipset
- 2 x 10Gb/s LAN ports (Broadcom® BCM57416)
- 4 x 1Gb/s LAN ports (Intel® I210-AT)
- 1 x dedicated management port
- 1 x SlimSAS with 4 x SATA 6Gb/s ports
- 2 x SATA 6Gb/s ports
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 6 x PCIe Gen5 x16 and x8 expansion slots

### Specification

**Form Factor** ATX (304.8W x 254D mm)

**CPU** 4th Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® CPU Max Series  
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor,  
Intel® Xeon® Silver Processor  
CPU TDP up to 350W

**Socket** 1 x LGA 4677 (Socket E)

**Chipset** Intel® C741 Chipset

**Memory** 8-Channel DDR5 memory, 8 x DIMM slots  
RDIMM modules up to 128GB supported  
3DS RDIMM modules up to 256GB supported  
Memory speed: Up to 4800 MHz

**LAN** 2 x 10Gb/s LAN ports (Broadcom® BCM57416)  
4 x 1Gb/s LAN ports (Intel® I210-AT)  
BCM57416 with NCSI function supported  
1 x 10/100/1000 management LAN

**Video** Integrated in Aspeed® AST2600  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp, DDR4 SDRAM

**Audio** Realtek® ALC897 controller  
Supports 2/4/5.1/7.1 channel configurations

**SATA** 1 x SlimSAS with 4 x SATA 6Gb/s ports  
2 x SATA 6Gb/s ports

**RAID** Intel® SATA RAID 0/1/10/5

**Expansion Slots** 4 x PCIe x16 (Gen5 x16) slots  
1 x PCIe x16 (Gen5 x16 or x8) slot  
1 x PCIe x8 (Gen5 x8) slot  
1 x M.2 slot :M-key, PCIe Gen3 x4, supports 2280 cards

**Rear I/O** 1 x SlimSAS with 4 x SATA 6Gb/s ports  
2 x SATA 6Gb/s ports

**Internal I/O** 1 x CPU fan header, 7 x System fan headers, 2 x USB 3.2 Gen1 headers,  
2 x USB 2.0 headers, 1 x VROC connector, 1 x Front panel header, 1 x  
HDD backplane board header, 1 x PMBus connector, 1 x IPMB connector,  
1 x Clear CMOS jumper, 1 x BIOS recovery jumper, 1 x Buzzer

**TPM** 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)

**OS Compatibility** Windows Server 2019 / 2011  
RHEL 8.4 / 8.5 / 8.6 / 8.7 / 9.0 / 9.1 ( x64)  
SLES 15 SP3 / 15 SP4 ( x64)  
Ubuntu 22.04 LTS / 22.04.1 LTS (x64)  
VMware ESXi 7.0 Update 3i / 8.0  
Citrix Hypervisor 8.2.1

**Board Management** Aspeed® AST2600 management controller  
GIGABYTE Management Console (AMI MegaRAC SP-X)

**PSU Connectors** 1 x 24-pin ATX main power connector  
2 x 8-pin ATX 12V power connectors

**Operating Properties** Operating temperature: 10°C to 40°C  
Operating humidity: 8-80% (non-condensing)  
Non-operating temperature: -40°C to 60°C  
Non-operating humidity: 20%-95% (non-condensing)

**Retail Packaging Content** 1 x MS03-6L0, 1 x I/O shield, 1 x Quick start guide,  
3 x Carrier clips, 1 x SlimSAS for 4 x SATAIII cable  
Single Box dimensions: 360 x 330 x 80 mm  
Carton dimensions: 674 x 424 x 385 mm (10 x single boxes)

**Bulk Packaging Content** 10 x MS03-6L0, 10 x I/O shields, 30 x Carrier clips  
Carton dimensions: 600 x 473 x 495 mm

**Reference Numbers** Retail: 9MS036L0MR-000\*  
Bulk: 9MS036L0NR-000\*



Learn more about GIGABYTE server, visit <https://www.gigacomputing.com>

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