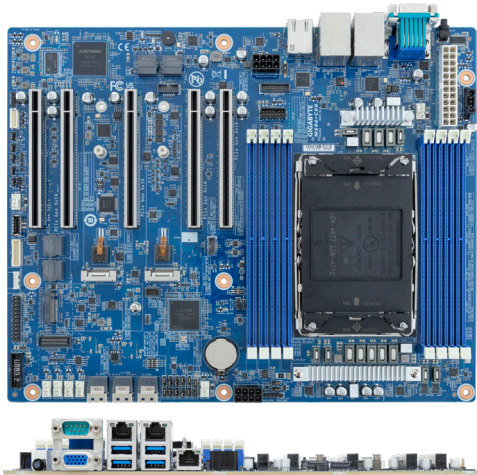


# MS04-CEO

Server Motherboard - ATX UP



## Features

- Single Intel® Xeon® 6 Processors, LGA 4710
- 8-Channel DDR5 RDIMM / MRDIMM, 8 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I210-AT
- 3 x SlimSAS connectors for 12 x SATA 6Gb/s
- 2 x M.2 slots with PCIe Gen5 x2 interface
- 4 x PCIe Gen5 x16 expansion slots
- 1 x PCIe Gen5 x8 expansion slot

## Specification

**Form Factor** ATX (304.8W x 244D mm)

**CPU** Intel® Xeon® 6 Processors  
 - Intel® Xeon® 6700E-Series Processors  
 - Intel® Xeon® 6700P-Series Processors  
 - Intel® Xeon® 6500P-Series Processors  
 Single processor, TDP up to 350W

**Socket** 1 x LGA 4710 (Socket E2)

**Chipset** System on Chip

**Memory** 8 x DIMM slots  
 8-Channel DDR5 RDIMM / MRDIMM  
 RDIMM: Up to 6400 MT/s; MRDIMM: Up to 8000 MT/s  
 \*MRDIMMs are only supported with Intel Xeon 6 Processors with P-cores

**LAN** 2 x 1Gb/s LAN ports (2 x Intel® I210-AT) - Support NCSI function  
 1 x 10/100/1000 Mbps Management LAN

**Video** Integrated in ASPEED® AST2600  
 - 1 x VGA port

**Storage** 3 x SlimSAS connectors for 12 x SATA 6Gb/s  
 2 x M.2 (2280/22110), PCIe Gen5 x2

**RAID** Onboard VROC key header

**Expansion Slots** 4 x PCIe x16 (Gen5 x16) slots  
 1 x PCIe x16 (Gen5 x8) slot

**Rear I/O** 4 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN,  
 1 x ID button with LED

**Internal I/O** 1 x CPU fan header, 6 x System fan headers, 2 x M.2 slots,  
 1 x USB 3.2 Gen1 x2 header, 3 x SlimSAS connectors,  
 1 x VROC connector, 1 x NCSI connector, 1 x Front panel  
 header, 1 x Backplane board header, 1 x PMBus header,  
 1 x IPMB header, 1 x TPM header, 1 x PRoT connector

**Security Modules** 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM012)  
 1 x PRoT connector (only enabled on RoT SKU)

**PSU Connectors** 1 x 24-pin ATX main power connector  
 2 x 8-pin ATX 12V power connectors  
 1 x 6-pin ATX 12V power connector

**Board Management** ASPEED® AST2600 Baseboard Management Controller  
 GIGABYTE Management Console web interface

**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 MS04-CEO, 1 x I/O shield, 1 x Quick start guide,  
 2 x Carrier clips, 1 x SlimSAS to 4 x SATA 6Gb/s cable (600mm)  
 Single Box dimensions: 360 x 330 x 80 mm  
 Carton dimensions: 674 x 424 x 385 mm  
 Quantity: 10 x single boxes in one carton

**Bulk Packaging Content** 10 x MS04-CEO, 10 x I/O shields, 20 x Carrier clips  
 Carton dimensions: 600 x 473 x 495 mm

**Reference Numbers** Retail: 9MS04CEO0MR-000-1\*  
 Bulk: 9MS04CEO0NR-000-1\*



Learn more at <https://www.GIGABYTE.com/enterprise>

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