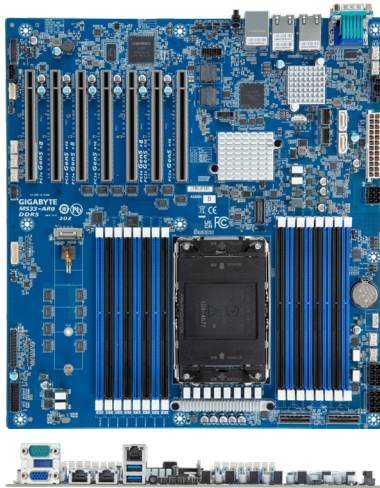


# MS33-AR0

## 4th Gen Intel Xeon Scalable UP Motherboard



### Features

- 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Single processor, LGA4677
- 8-Channel RDIMM DDR5, 16 x DIMMs
- Supports Intel® Optane™ Persistent Memory 300 series
- Intel® C741 Chipset
- 2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2)
- 1 x Dedicated management port
- 2 x SlimSAS with 8 x SATA 6Gb/s ports
- 2 x 7-pin SATA 6Gb/s ports
- 1 x Ultra-Fast M.2 with PCIe Gen3 x4 interface
- 7 x PCIe Gen5 x16 or x8 expansion slots

### Specification

<b>Form Factor</b>	E-ATX (304.8W x 330.2D mm)	<b>Internal I/O</b>	2 x MCIO 8i connectors (For system integration only), 1 x CPU fan header, 5 x System fan headers, 1 x USB 3.2 Gen1 header, 1 x TPM header, 1 x Front panel header, 1 x HDD back plane board header, 1 x PMBus connector, 1 x IPMB connector, 1 x Clear CMOS jumper, 1 x BIOS recovery jumper, 1 x Buzzer
<b>CPU</b>	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	<b>TPM</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
<b>Socket</b>	1 x LGA 4677 (Socket E)	<b>OS Compatibility</b>	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
<b>Chipset</b>	Intel® C741 Chipset	<b>Board Management</b>	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Memory</b>	8-Channel DDR5 memory, 16 x DIMM slots RDIMM modules up to 128GB supported 3DS RDIMM modules up to 256GB supported Memory speed: Up to 4800 MHz	<b>PSU Connectors</b>	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x 6-pin ATX 12V power connector
<b>LAN</b>	2 x 10Gb/s BASE-T LAN ports (Intel® X710-AT2) NCSI function supported 1 x 10/100/1000 management LAN	<b>Operating Properties</b>	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)
<b>Video</b>	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	<b>Retail Packaging Content</b>	1 x MS33-AR0, 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: 409 x 355 x 78 mm Carton dimensions: 729 x 415 x 432 mm Quantity: 10 x single box with one carton
<b>SATA</b>	2 x SlimSAS with 8 x SATA 6Gb/s ports 2 x 7-pin SATA 6Gb/s ports	<b>Bulk Packaging Content</b>	10 x MS33-AR0, 10 x I/O shields, 30 x Carrier clips Carton dimensions: 600 x 473 x 517 mm
<b>RAID</b>	Intel® SATA RAID 0/1/10/5	<b>Reference Numbers</b>	Retail: 9MS33AR0MR-000 Bulk: 9MS33AR0NR-000
<b>Expansion Slots</b>	1 x PCIe x16 (Gen5 x16) slot 3 x PCIe x16 (Gen5 x16 or x8) slots 3 x PCIe x16 (Gen5 x8) slots  2 x M.2 slot: - M-key, PCIe Gen3 x4, supports 2280/22110 cards		
<b>Rear I/O</b>	2 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN, 1 x ID button with LED		



Learn more about GIGABYTE server solutions, visit [www.gigabyte.com/Enterprise](http://www.gigabyte.com/Enterprise)

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