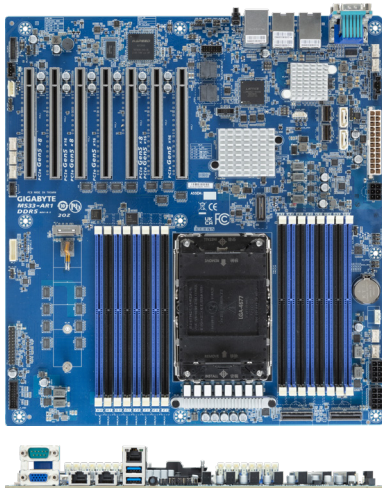# GIGABYTE™

MS33-AR1

Motherboard - 4th/5th Gen Intel Xeon Scalable UP

intel. XEON

Features

- 5th Gen Intel® Xeon® Scalable Processors
- 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Single processor, LGA4677
- 8-Channel RDIMM DDR5, 16 x DIMMs
- Intel® C741 Chipset
- 2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416)
- 1 x Dedicated management port
- 2 x SlimSAS connectors for 8 x SATA 6Gb/s
- 2 x SATA 6Gb/s ports
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 7 x PCIe Gen5 x16 and x8 expansion slots

Specification

Form Factor	E-ATX (304.8W x 330.2D mm)	**Internal I/O**	2 x MCIO 8i connectors, 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
CPU	5th Generation Intel® Xeon® Scalable Processors 4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Single processor CPU TDP up to 350W		
		TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
Socket	1 x LGA 4677 (Socket E)	**OS Compatibility**	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 9.0 / 9.1 / 9.2 (x64) SLES 15 SP4 (x64) Ubuntu 22.04 LTS / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64) VMware ESXi 7.0 Update 3i / 8.0 / 8.0 Update 1 Citrix Hypervisor 8.2 LTSR CU1
Chipset	Intel® C741 Chipset		
Memory	8-Channel DDR5 memory, 16 x DIMM slots RDIMM modules up to 96GB supported 3DS RDIMM modules up to 256GB supported Up to 5600MHz (1DPC), 4400MHz (2DPC)		
		Board Management	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
LAN	2 x 10Gb/s BASE-T LAN ports (Broadcom® BCM57416) NCSI function supported 1 x 10/100/1000 management LAN	**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
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**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)
SATA	2 x SlimSAS connectors for 8 x SATA 6Gb/s 2 x SATA 6Gb/s ports		
RAID	Intel® SATA RAID 0/1/10/5	**Retail Packaging Content**	1 x MS33-AR1, 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
Expansion Slots	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		
		Bulk Packaging Content	10 x MS33-AR1, 10 x I/O shields, 30 x Carrier clips Carton dimensions: 600 x 473 x 517 mm
Rear I/O	2 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN, 1 x ID button with LED	**Reference Numbers**	Retail: 9MS33AR1MR-000-3*/1* Bulk: 9MS33AR1NR-000-3*/1*

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

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