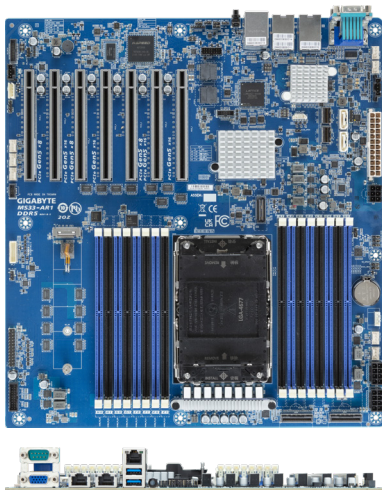


MS33-AR1

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 (Broadcom® BCM57416)
- 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

Form Factor E-ATX (304.8W x 330.2D 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, 16 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 BASE-T LAN ports (Broadcom® BCM57416))
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

SATA 2 x SlimSAS with 8 x SATA 6Gb/s ports
2 x 7-pin SATA 6Gb/s ports

RAID Intel® SATA RAID 0/1/10/5

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

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

Internal I/O 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

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

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
1 x 6-pin ATX 12V power connector

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 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
Quantity: 10 x single box with one carton

Bulk Packaging Content 10 x MS33-AR1, 10 x I/O shields, 30 x Carrier clips
Carton dimensions: 600 x 473 x 517 mm

Reference Numbers Retail: 9MS33AR1MR-000
Bulk: 9MS33AR1NR-000



Learn more about GIGABYTE server solutions, visit www.gigabyte.com/Enterprise

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