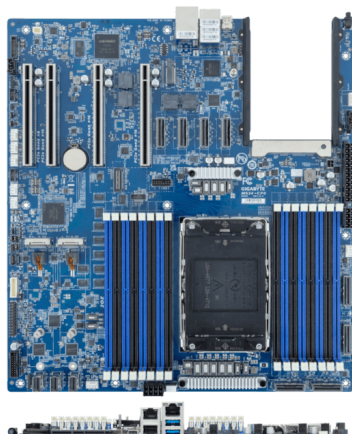


MS34-CP0 (Rev. 1.x)

Motherboard - Intel® Xeon® 6700/6500-Series Processors R1S - E-ATX UP



Key Features

- Single Intel® Xeon® 6700/6500-Series Processors with 136 PCIe lanes
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 16 x DIMMs
- 2 x 1 Gb/s LAN ports via Broadcom® BCM5720
- 2 x MCIO 8i connectors supporting PCIe Gen5 x8
- 6 x MCIO 8i connectors supporting PCIe Gen5 x8, **require 136 PCIe lanes CPU**
- 3 x SlimSAS 4i connectors supporting SATA
- 1 x M.2 slot with PCIe Gen5 x2
- 1 x M.2 slot with PCIe Gen5 x2, **shared with SATA**
- 4 x PCIe x16 slots with Gen5 x16 and x8 lanes
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot

Specification

Form Factor	E-ATX (W304.8 x D330.2 mm)	Internal I/O	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x 4-pin 12V standby power connector 1 x CPU fan header / 6 x System fan headers 1 x USB 3.2 Gen1 x2 header / 2 x M.2 slots 8 x MCIO 8i connectors / 3 x SlimSAS 4i connectors 1 x VROC connector / 1 x NCSI connector 1 x Front panel header / 1 x Backplane board header 1 x COM header / 1 x PMBus header 1 x IPMB header / 1 x TPM header 1 x PROT connector (only enabled on RoT SKU)
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Single processor, TDP up to 350 W	Rear I/O	2 x USB 3.2 Gen1 ports (Type-A) 1 x Mini-DP 2 x RJ45 ports 1 x MLAN port 1 x ID button with LED
Socket	1 x LGA 4710 (Socket E2)	Security Modules	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012 1 x PROT connector (only enabled on RoT SKU)
Memory	8-Channel DDR5 RDIMM/MRDIMM, 16 x DIMMs [RDIMM] Up to 6400 MT/s (1DPC), 6000 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s [1] MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration.	Board Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
OS Compatibility	OS Support List	PSU Connectors	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x 4-pin 12V standby power connector
LAN	2 x 1 Gb/s LAN (1 x Broadcom® BCM5720), Support NCSI 1 x 10/100/1000 Mb/s Management LAN	Operating Properties	Operating: 10°C to 40°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP	Retail Packaging Content	1 x MS34-CP0 1 x I/O shield 1 x Quick start guide 1 x Mini-DP to D-Sub cable 2 x Carriers Quantity: 10 x single boxes in one carton
Storage Interface	MCIO: 2 x MCIO 8i for 4 x Gen5 NVMe SlimSAS: 3 x SlimSAS 4i for 12 x SATA [1] M.2: 1 x M.2 (2280/22110), PCIe Gen5 x2 1 x M.2 (2280/22110), PCIe Gen5 x2, shared with SATA [1] SATA support is shared with 1 x M.2 slot.	Bulk Packaging Content	10 x MS34-CP0 10 x I/O shields 20 x Carriers
RAID	Onboard VROC key header	Ordering Part Numbers	Retail: 9MS34CP0MR-000-1* Bulk: 9MS34CP0NR-000-1*
PCIe Expansion Slots	Slot_6: PCIe x16 (Gen5 x16) Slot_4: PCIe x16 (Gen5 x16) Slot_2: PCIe x16 (Gen5 x16 or x8), shared with Slot_1 Slot_1: PCIe x16 (Gen5 x8) 1 x OCP NIC 3.0 (Gen5 x16), Supports NCSI 2 x MCIO 8i (Gen5 x8) 6 x MCIO 8i (Gen5 x8) [1] [1] Require CPU with 136 PCIe lanes.		



Learn more at: <https://www.gigabyte.com/Enterprise>

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