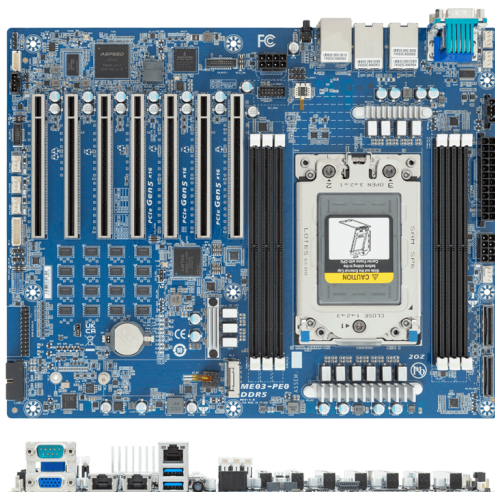


# ME03-PE0 (Rev. 1.x)

Motherboard - AMD EPYC™ 8005/8004 Server Processors - ATX UP



## Key Features

- Single AMD EPYC™ 8005/8004 Server Processors
- 6-Channel DDR5 RDIMM per CPU with 6 x DIMMs
- 2 x 1 Gb/s LAN ports via Broadcom® BCM5720
- 2 x MCIO 8i connectors supporting PCIe Gen5 x8
- 1 x M.2 slot with PCIe Gen3 x4
- 3 x PCIe x16 slots with Gen5 x16 lanes
- 4 x PCIe x16 slots with Gen4 x16 and x8 lanes

## Specification

|                             |  |                                 |   |
|-----------------------------|--|---------------------------------|---|
| <b>Form Factor</b>          | ATX (W304.8 x D243.8 mm)   | <b>Internal I/O</b>             | 1 x 24-pin ATX main power connector<br>2 x 8-pin ATX 12V power connectors<br>1 x CPU fan header / 5 x System fan headers<br>1 x USB 3.2 Gen1 x2 header / 1 x M.2 slot<br>2 x MCIO 8i connectors / 1 x Front panel header<br>1 x Backplane board header / 1 x PMBus connector<br>1 x IPMB connector / 1 x TPM header |
| <b>CPU</b>                  | AMD EPYC™ 8005 Server Processors<br>AMD EPYC™ 8004 Server Processors<br>Single processor, cTDP up to 225 W   | <b>Rear I/O</b>                 | 2 x USB 3.2 Gen1 ports (Type-A)<br>1 x VGA port<br>1 x Serial port<br>2 x RJ45 ports<br>1 x MLAN port<br>1 x ID button with LED   |
| <b>Socket</b>               | 1 x LGA 4844 (Socket SP6)  | <b>Security Modules</b>         | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010  |
| <b>Chipset</b>              | System on Chip   | <b>Board Management</b>         | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface  |
| <b>Memory</b>               | 6-Channel DDR5 RDIMM, 6 x DIMMs<br>[EPYC 8005] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)<br>[EPYC 8004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)  | <b>PSU Connectors</b>           | 1 x 24-pin ATX main power connector<br>2 x 8-pin ATX 12V power connectors   |
| <b>OS Compatibility</b>     | <a href="#">OS Support List</a>  | <b>Operating Properties</b>     | Operating: 10°C to 40°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)  |
| <b>LAN</b>                  | 2 x 1 Gb/s LAN (1 x Broadcom® BCM5720), Support NCSI<br>1 x 10/100/1000 Mb/s Management LAN  | <b>Retail Packaging Content</b> | 1 x ME03-PE0<br>1 x I/O shield<br>1 x Quick start guide<br>1 x MCIO 8i to 8 x SATA cable (600mm)<br><br>Quantity: 10 x single boxes in one carton   |
| <b>Video</b>                | Integrated in ASPEED® AST2600<br>- 1 x VGA port  | <b>Bulk Packaging Content</b>   | 10 x ME03-PE0<br>10 x I/O shields   |
| <b>Audio</b>                | N/A  | <b>Ordering Part Numbers</b>    | Retail: 9ME03PE0MR-000-1*<br>Bulk: 9ME03PE0NR-000-1*  |
| <b>Storage Interface</b>    | <b>MCIO:</b><br>2 x MCIO 8i for 4 x Gen5 NVMe or 16 x SATA<br><b>M.2:</b><br>1 x M.2 (2280/22110), PCIe Gen3 x4  | <b>Optional Parts</b>           | - MCIO 8i to 2 x MCIO 4i cable (550mm); 25CF9-550700-A4R  |
| <b>RAID</b>                 | N/A  |                                 |   |
| <b>PCIe Expansion Slots</b> | Slot_7: PCIe x16 (Gen5 x16)<br>Slot_6: PCIe x16 (Gen5 x16)<br>Slot_5: PCIe x16 (Gen5 x16)<br>Slot_4: PCIe x16 (Gen4 x0 or x8), <b>shared with Slot_3</b><br>Slot_3: PCIe x16 (Gen4 x16 or x8), <b>shared with Slot_4</b><br>Slot_2: PCIe x16 (Gen4 x0 or x8), <b>shared with Slot_1</b><br>Slot_1: PCIe x16 (Gen4 x16 or x8), <b>shared with Slot_2</b><br><br>2 x MCIO 8i (Gen5 x8 or SATA) |                                 |   |



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

\* All specifications are subject to change without notice. Please visit our website for the latest information.

\* All trademarks and logos are the properties of their respective holders.

© 2026 Giga Computing Technology Co., Ltd. All rights reserved.

Last updated: May 20, 2026

Designed by

