

# MX33-BS0 (Rev. 1.x)

Motherboard - Intel® Xeon® E-2300 Processors - microATX UP



## Key Features

- Single Intel® Xeon® E-2300 processors
- Dual Channel DDR4 ECC/Non-ECC UDIMM, 4 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel® I210-AT
- 6 x SATA 7-pin ports
- 1 x M.2 slot with PCIe Gen3 x4
- 2 x PCIe Gen4 x16 and x4 slots

## Specification

|                             |                                                                                                                                                                                                                                                       |                                 |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>          | microATX (W244 x D244 mm)                                                                                                                                                                                                                             | <b>Internal I/O</b>             | 1 x 24-pin ATX main power connector<br>1 x 8-pin ATX 12V power connector<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>6 x SATA 7-pin connectors / 1 x Front panel header<br>1 x Backplane board connector / 1 x COM header<br>1 x PMBus header / 1 x IPMB header<br>1 x TPM header |
| <b>CPU</b>                  | Intel® Xeon® E-2300 processors<br>10th Gen Intel® Pentium® processor<br>Single processor, TDP up to 95 W                                                                                                                                              | <b>Rear I/O</b>                 | 2 x USB 3.2 Gen2x1 ports (Type-A)<br>4 x USB 2.0 ports (Type-A)<br>1 x VGA port<br>1 x Serial port<br>2 x RJ45 port<br>1 x MLAN port<br>1 x ID button with LED                                                                                                                                                                       |
| <b>Socket</b>               | 1 x LGA 1200 (Socket H5)                                                                                                                                                                                                                              | <b>Security Modules</b>         | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010                                                                                                                                                                                                                                                                                   |
| <b>Chipset</b>              | Intel® C252                                                                                                                                                                                                                                           | <b>PSU Connectors</b>           | 1 x 24-pin ATX main power connector<br>1 x 8-pin ATX 12V power connector                                                                                                                                                                                                                                                             |
| <b>Memory</b>               | Dual channel DDR4 ECC/Non-ECC UDIMM, 4 x DIMMs<br>Up to 3200/2666 MT/s                                                                                                                                                                                | <b>Operating Properties</b>     | Operating: 0°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 (2 x Intel® I210-AT), Support NCSI<br>1 x 10/100/1000 Mb/s Management LAN                                                                                                                                                              | <b>Retail Packaging Content</b> | 1 x MX33-BS0<br>1 x I/O shield<br>1 x Quick start guide<br>4 x SATA cables (500 mm)<br><br>Quantity: 10 x single boxes in one carton                                                                                                                                                                                                 |
| <b>Video</b>                | Integrated in ASPEED® AST2500<br>- 1 x VGA port                                                                                                                                                                                                       | <b>Bulk Packaging Content</b>   | 20 x MX33-BS0<br>20 x I/O shields                                                                                                                                                                                                                                                                                                    |
| <b>Storage Interface</b>    | <b>SATA 7-pin:</b><br>6 x SATA<br><b>M.2:</b><br>1 x M.2 (2242/2280), PCIe Gen3 x4                                                                                                                                                                    | <b>Ordering Part Numbers</b>    | Retail: 9MX33BS0MR-00-1*<br>Bulk: 9MX33BS0NR-00-1*                                                                                                                                                                                                                                                                                   |
| <b>RAID</b>                 | Intel® SATA RAID 0/1/10/5                                                                                                                                                                                                                             |                                 |                                                                                                                                                                                                                                                                                                                                      |
| <b>PCIe Expansion Slots</b> | 1 x PCIe x16 (Gen4 x16) <sup>[1]</sup><br>1 x PCIe x8 (Gen4 x4) <sup>[2]</sup><br><br><sup>[1]</sup> Downgraded to Gen3 if installed with a Intel® Pentium® processor.<br><sup>[2]</sup> Not available if installed with a Intel® Pentium® processor. |                                 |                                                                                                                                                                                                                                                                                                                                      |



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

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