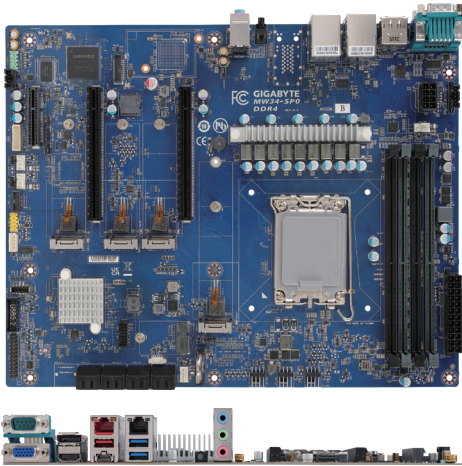


MW34-SP0

12th Gen Intel® Core™ Workstation Board



Features

- 12th Gen Intel® Core™ Desktop Processor
- Intel® W680 Chipset
- Dual Channel DDR4 3200MHz UDIMM, 4 DIMMs
- 1 x 2.5G LAN port (Intel® i225)
- 1 x Dedicated Management port
- 8 x SATA III 6Gb/s ports
- 4 x M.2 NVMe PCIe 4.0 slots
- 2 x PCIe Gen5 slots + 1 x PCIe Gen3 slots
- Aspeed® AST2600 remote management controller

Specification

Form Factor	ATX (305W x 244D mm)	Rear I/O	1 x VGA, 1 x COM, 1 x HDMI, 1 x DP, 1 x USB 3.2 gen2 Type-C, 3 x USB 3.2 gen1 Type-A, 1 x MLAN, 1 x 2.5G LAN, 1 x ID button, 1 x 3 in 1 Audio jacks
CPU	12th Gen Intel® Core™ Desktop Processor	Internal I/O	8 x SATA III 6Gb/s ports, 1 x USB3.2 gen2 x2 Type-C header, 1 x USB3.2 gen1 header for 2 ports, 2 x USB2.0 header for 2 ports, 1 x Front panel header, 1 x TPM header, 1 x M.2 slot for Wi-Fi, 1 x CPU fan header, 6 x System fan headers
Socket	1 x LGA 1700	PSU Connectors	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors
Chipset	Intel® W680	TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
Memory	2-Channel DDR4 memory, 4 x DIMM slots Supports 1.2V DDR4 3200MHz memory ECC UDIMM modules supported, up to 128GB	OS Compatibility	Windows 10 (64bit) Windows 11 (64bit)
LAN	1 x 2.5GbE LAN ports (Intel® I225) 1 x 10/100/1000 Management LAN (Realtek® RTL8211FD)	Board Management	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Video	Integrated in Intel® Processor: - 1 x DisplayPort, Support for DisplayPort 1.4a version - 1 x HDMI port, Support for HDMI 2.0b version Integrated in ASPEED® AST2600: - 1 x VGA Port	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)
Audio	Realtek® ALC897 controller Supports 2/4/5.1/7.1 channel configurations 3 ports Audio Jack (Audio in/Audio out/Mic)	Retail Packaging Content	1 x MW34-SP0, 1 x I/O shield, 1 x Quick start guide, 4 x SATA III 6Gb/s cables
SATA	8 x SATA III 6Gb/s ports	Bulk Packaging Content	10 x MW34-SP0, 10 x I/O shields Carton dimensions: 600 x 473 x 495 mm
RAID	Intel® RAID 0/1/10/5	Reference Numbers	Retail: 9MW34SP0MR-00 Bulk: 9MW34SP0NR-00 IO shielding: 12AIO-MW34S0-00R SATA cable: 12CF1-2SAT1B-01R
Expansion Slots	Slot_6: 1 x PCIe x16 (Gen5 x16 or x8) slot from CPU Slot_3: 1 x PCIe x16 (Gen5 x0 or x8) slot, shared with slot_6 Slot_1: 1 x PCIe x4 (Gen3 x4) slot from chipset 4 x M.2 slots: M-key - 1 x M.2 2280/22110 (PCIe Gen4 x4 from CPU) - 3 x M.2 2280 (PCIe Gen4 x4 from chipset)		



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