MOTHERBOARD

MEG Z690 UNIFY

THE WORLD RECORD BREAKER



FEATURES

Direct 19+2 Phases Power Design

Extreme direct power solution with 19+2 phases and 105A Smart Power Stage unleash the maximum CPU performance.

Lightning Gen 5

The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.

Quintuple M.2 Connectors

Onboard 5x M.2 connectors with quad PCIe 4.0 solution, strengthened by double-sided M.2 Shield Frozr.

Outstanding Cooling Solution

Aluminum Cover, VRM Heat-pipe, 7W/mK thermal pads, Double-sided M.2 Shield Frozr and Aluminum Backplate ensure the extreme performance with low temp.

Front and Rear Lightning USB 20G

USB 3.2 Gen 2x2 port offers 20Gbps transmission speed, 4x faster then USB 3.2 Gen 1, available when connecting the front and rear USB Type-C.

Dual 2.5G LAN

Onboard dual 2.5Gbps LAN with LAN manager provides incredible data transfer speed faster than general Gigabit LAN, delivering the best online gaming experience.

SMT PCIE and Memory Slot

The advanced SMT(Surface Mount Technology) welding process reduces the defect rate of slot solder joints, deliver the clean and pure signal.

8 Layer PCB with 2oz Thickened Copper

An Enhanced PCB design provides higher performance and long-lasting system stability without any compromise.

Latest DDR5 Memory

A huge step of DDR performance enhancement with the latest DDR5 memory and MSI Memory Boost technology.

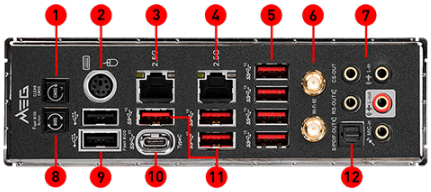
Wi-Fi 6E

The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.

SPECIFICATIONS

Model Name	MEG Z690 UNIFY
CPU Support	Supports 12th/ 13th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1700
Chipset	Intel® Z690 Chipset
Graphics Interface	2x PCIe 5.0 x16 slots 1x PCIe 3.0 x4 slot Support NVIDIA® SLI™ / AMD® CrossFire™ Technology
Memory Support	4 DIMMs, Dual Channel DDR5-6666+MHz(OC)
Storage	4x M.2 Gen4 x4 64Gbps slots, 1x M.2 Gen3 x4 32Gbps slot, 6x SATA 6Gb/s ports
USB ports	2x USB 3.2 Gen 2x2 20Gbps (2 Type-C), 7x USB 3.2 Gen 2 10Gbps (7 Type-A), 4x USB 3.2 Gen 1 5Gbps (4 Type-A), 6x USB 2.0
LAN	2x Intel® I225-V 2.5G LAN
Wireless / Bluetooth	Intel® Wi-Fi 6E module, Bluetooth 5.2
Audio	8-Channel (7.1) HD Audio with Audio Boost 5

CONNECTIONS



1. Clear CMOS Button
2. PS/2 Keyboard / Mouse Port
3. 2.5G LAN
4. 2.5G LAN
5. USB 3.2 Gen 2 10Gbps (Type-A)
6. Wi-Fi / Bluetooth
7. HD Audio Connectors
8. Flash BIOS Button
9. USB 2.0
10. USB 3.2 Gen 2x2 20Gbps (Type-C)
11. USB 3.2 Gen 2 10Gbps (Type-A)
12. Optical S/PDIF-Out

Generated 2023-02-15, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.

© 2023 Micro-Star Int'l Co.Ltd. MSI is a registered trademark of Micro-Star Int'l Co.Ltd. All rights reserved.