



# msi

MOTHERBOARDS

## MEG Z690I UNIFY

PURE BLACK, PURE PERFORMANCE



### SPECIFICATIONS

<b>Model Name</b>	MEG Z690I UNIFY
<b>CPU Support</b>	Supports 12th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
<b>CPU Socket</b>	LGA 1700
<b>Chipset</b>	Intel® Z690 Chipset
<b>Graphics Interface</b>	1x PCIe 5.0 x16 slot
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI 2.1, DisplayPort 1.4 - Requires Processor Graphics, 2x Thunderbolt™ 4 (Type-C) - Input from mini DisplayPort
<b>Memory Support</b>	2 DIMMs, Dual Channel DDR5-6800+MHz(OC)
<b>Storage</b>	2x M.2 Gen4 x4 64Gbps slots, 1x M.2 Gen3 x4 32Gbps slot, 4x SATA 6Gb/s ports
<b>Thunderbolt™ 4</b>	2x USB Type-C up to 40G, Charging support up to 5V/3A, 15W 2x Mini DisplayPort input ports
<b>USB ports</b>	1x USB 3.2 Gen 2x2 20Gbps (1 Type-C), 2x USB 3.2 Gen 2 10Gbps (2 Type-A), 6x USB 3.2 Gen 1 5Gbps (6 Type-A), 2x USB 2.0
<b>LAN</b>	Intel® I225-V 2.5G LAN
<b>WiFi / BT</b>	Intel® Wi-Fi 6E module, Bluetooth 5.2
<b>Audio</b>	8-Channel (7.1) HD Audio with Audio Boost 5

### FEATURES



#### Dual Thunderbolt™ 4 ports

Thunderbolt™ 4 brings Thunderbolt to USB-C at true 40 Gb/s speeds, 8K display support, Daisy-Chaining and Multi-Port Accessory Architecture.



#### Lightning Gen 5

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



#### Direct 10+1+1 Phases with 105A SPS

Extreme direct power solution with 10+1+1 phases and 105A Smart Power Stage unleash the maximum CPU performance.



#### Triple M.2 Connectors

Onboard 3x M.2 connectors with dual PCIe 4.0 solution, strengthened by M.2 Shield Frozr.



#### Outstanding Cooling Solution

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



#### Front Lightning USB 20G

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



#### 2.5G LAN

Onboard 2.5G LAN with LAN manager, 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.



#### 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.

### CONNECTIONS



1. DisplayPort
2. USB 3.2 Gen1 5Gbps (Type-A)
3. 2.5G LAN
4. Wi-Fi / Bluetooth
5. Thunderbolt 4 40Gbps (Type-C)
6. HD Audio Connectors
7. Clear CMOS Button
8. HDMI
9. USB 3.2 Gen2 10Gbps (Type-A)
10. Mini DisplayPort Input (for Thunderbolt passthrough)