MOTHERBOARD

MEG Z590I UNIFY

PURE BLACK, PURE PERFORMANCE



FEATURES

Aluminum Cover

Fully aluminum IO cover provide the maximum surface of heat dissipation, ready for breaking the world record!

Lightning Gen4 Solution

The latest Gen4 PCI-E and M.2 solution with up to 64GB/s bandwidth for maximum transfer speed.

10 Layer PCB with 2oz Thickened Copper

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

Direct 8 Phases with 90A SPS

INTERSIL digital PWM, direct 8 phases with 90A Smart Power Stage, Titanium Choke III and Core Boost to unleash the maximum performance.

Frozr Heatsink Design

Designed with double ball bearings to provide best performance for enthusiast gamers and prosumers.

Wi-Fi 6E

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

2.5G LAN

Onboard 2.5G LAN with LAN manager, delivering the best online gaming experience.

Dual M.2 Connectors

Onboard dual M.2 connectors for the maximum storage performance with one Lightning Gen 4 solution.

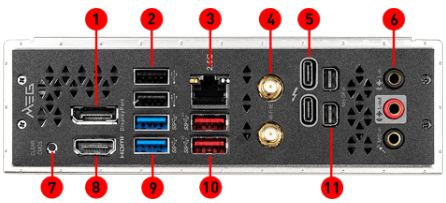
Dual Thunderbolt™ 4 ports

Thunderbolt™ 4 brings Thunderbolt to USB-C at true 40 Gb/s speeds, 8K display support, Daisy-Chaining, Multi-Port Accessory Architecture and USB 4.0 compliant.

SPECIFICATIONS

Model Name	MEG Z590I UNIFY
CPU Support	Supports 10th Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1200
Chipset	Intel® Z590 Chipset
Graphics Interface	1x PCIe 4.0 x16 slot
Display Interface	Support 4K@60Hz as specified in HDMI™ 2.0b DisplayPort 1.4 – Requires Processor Graphics 2x Thunderbolt™ 4 (Type-C), Input from mini DisplayPort
Memory Support	2 DIMMs, Dual Channel DDR4-5600MHz(OC)
Storage	1x M.2 Gen4 x4 64Gb/s slot, 1x M.2 Gen3 x4 32Gb/s slot, supports Intel® Optane™ technology 4x SATA 6Gb/s ports
Thunderbolt™ 4	2x USB Type-C up to 40G, Charging support up to 5V/3A, 15W, 2x Mini DisplayPort input ports
USB ports	3 x USB 3.2 Gen 2 10Gbps (2 Type-A + 1 Type-C) 4 x USB 3.2 Gen 1 5Gbps (4 Type-A) 4 x USB 2.0
LAN	Intel® I225-V 2.5G LAN
WiFi / BT	Intel® Wi-Fi 6E AX210, Bluetooth 5.2
Audio	8-Channel(7.1) HD Audio with Audio Boost 4

CONNECTIONS



1. DisplayPort
2. USB 2.0
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 Gen1 5Gbps (Type-A)
10. USB 3.2 Gen2 10Gbps (Type-A)
11. Mini DisplayPort Input (for Thunderbolt passthrough)

Generated 2023-03-31, 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.

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