



SPECIFICATIONS

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|---------------------------|--|
| Model Name | MEG Z590 ACE GOLD EDITION |
| 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 | 2x PCIe 4.0 x16 slots, 1x PCIe 3.0 x16 slot Support 2-way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology |
| Display Interface | Support 4K@60Hz as specified in HDMI™ 2.0b - Requires Processor Graphics, 2x Thunderbolt™ 4 (Type-C), Input from mini DisplayPort |
| Memory Support | 4 DIMMs, Dual Channel DDR4-5600MHz(OC) |
| Storage | 1x M.2 Gen4 x4 64Gb/s slot, 3x M.2 Gen3 x4 32Gb/s slots, supports Intel® Optane™ Technology 6x 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 | 3x USB 3.2 Gen 2 10Gbps (2 Type-A + 1 Type-C) 6x USB 3.2 Gen 1 5Gbps (6 Type-A) 6x 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 5 HD |

FEATURES



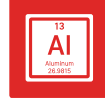
Extreme Power Design

INTERSIL digital PWM, 16+2+1 phases with 90A SPS, Mirrored Power Arrangement and dual CPU power connectors to unleash the maximum performance.



Quadruple M.2 Connectors

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



Outstanding Cooling Solution

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



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.



Smart Button

Reset Computer, Safe Boot, Turbo Fan and EZ LED control functions with just one click.



8 Layer PCB with 2oz Thickened Copper

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



Audio Boost 5 HD

Ultimate audio solution with premium audio processor combining ESS audio DAC and amplifier deliver the breathtaking experience.



2.5G LAN

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



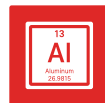
Wi-Fi 6E

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



Quadruple M.2 Connectors

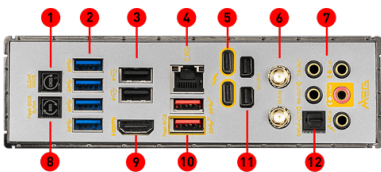
Onboard quadruple M.2 connectors for the maximum storage performance with three Lightning Gen 4 solution.



Outstanding Cooling Solution

Aluminum Cover design, VRM Heat-pipe, 7W/mK thermal pads, M.2 Shield Frozr and MOSFET Baseplate to ensure the extreme performance with low temp.

CONNECTIONS



1. Clear CMOS Button
2. USB 3.2 Gen1 5Gbps (Type-A)
3. USB 2.0
4. 2.5G LAN
5. Thunderbolt 4 40Gbps (Type-C)
6. Wi-Fi / Bluetooth
7. HD Audio Connectors
8. Flash BIOS Button
9. HDMI™
10. USB 3.2 Gen2 10Gbps (Type-A)
11. Mini DisplayPort Input (for Thunderbolt passthrough)
12. Optical S/PDIF-Out