



## SPECIFICATIONS

<b>Model Name</b>	MAG Z690M MORTAR WIFI
<b>CPU Support</b>	Supports 12 <sup>th</sup> 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 4.0 x16 slot, 1x PCIe 3.0 x16 slot Supports AMD® CrossFire™ Technology
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 - Requires Processor Graphics
<b>Memory Support</b>	4 DIMMs, Dual Channel DDR5-6200+ (OC)
<b>Expansion Slots</b>	1x PCIe 3.0 x1 slot
<b>Storage</b>	2x M.2 Gen4 x4 64Gbps slots, Support Intel® Optane™ Technology, 6x SATA 6Gb/s ports
<b>USB ports</b>	1x USB 3.2 Gen 2x2 20Gbps (Type-C), 4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C), 2x USB 3.2 Gen 1 5Gbps (Type-A), 8x USB 2.0
<b>LAN</b>	1x Realtek® 8125BG 2.5Gbps LAN
<b>Wireless / Bluetooth</b>	Intel® Wi-Fi 6E module, Bleutooth 5.2
<b>Audio</b>	8-Channel (7.1) HD Audio

## FEATURES



### Extended Heatsink Design

MSI extended PWM and enhanced circuit design ensures even high-end processors to run in full speed.



### Latest DDR5 Memory

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



### Lightning Gen4 Solution

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



### M.2 Shield FROZR

M.2 thermal accessory. Keeps M.2 SSDs safe while preventing throttling, making them run faster.



### Wi-Fi 6E

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



### 2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.



### Lightning USB 20G

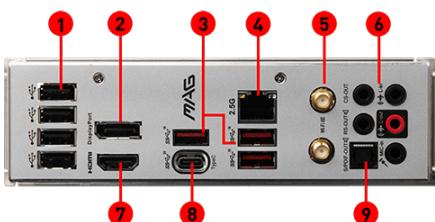
Built-in USB 3.2 Gen 2x2 port, offers 20Gbps transmission speed, 4X faster than USB 3.2 Gen 1.



### Core Boost

With premium layout and fully digital power design to support more cores and provide better performance.

## CONNECTIONS



1. USB 2.0 Port
2. DisplayPort 1.4
3. USB 3.2 Gen 2 10Gbps Type-A
4. 2.5G LAN Port
5. Wi-Fi / Bluetooth Antenna
6. HD Audio Connectors
7. HDMI™ 2.1 Port
8. USB 3.2 Gen 2x2 20Gbps Type-C
9. Optical S/PDIF OUT