



## SPECIFICATIONS

|                           |   |
|---------------------------|---|
| <b>Model Name</b>         | MPG Z590 TOMAHAWK WIFI  |
| <b>CPU Support</b>        | Supports 10 <sup>th</sup> Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors      |
| <b>CPU Socket</b>         | LGA 1200  |
| <b>Chipset</b>            | Intel® Z590 Chipset   |
| <b>Graphics Interface</b> | 1x PCIe 4.0 x16 slot, 1x PCIe 3.0 x16 slot<br>Support 2-way AMD® CrossFire™ Technology  |
| <b>Display Interface</b>  | Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4<br>- Requires Processor Graphics  |
| <b>Memory Support</b>     | 4 DIMMs, Dual Channel DDR4-5333 (OC)  |
| <b>Expansion Slots</b>    | 2x PCIe 3.0 x1 slots  |
| <b>Storage</b>            | 1x M.2 Gen4 x4 64Gb/s slot, 2x M.2 Gen3 x4 32Gb/s slots,<br>Support Intel® Optane™ Technology,<br>6x SATA 6Gb/s ports               |
| <b>USB ports</b>          | 1x USB 3.2 Gen 2x2 20Gbps (Type-C),<br>2x USB 3.2 Gen 2 10Gbps (Type-A + Type-C),<br>6x USB 3.2 Gen 1 5Gbps (Type-A),<br>6x USB 2.0 |
| <b>LAN</b>                | Intel® I225-V 2.5G LAN  |
| <b>WiFi / BT</b>          | Intel® Wi-Fi 6E AX210, Bluetooth 5.2  |
| <b>Audio</b>              | 8-Channel (7.1) HD Audio with Audio Boost 5   |

## FEATURES



### Extended Heatsink Design

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



### Lightning Gen4 Solution

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



### Mystic Light

Personalize your PC with 16.8 million colors / 31 effects, controlled in one click!..



### 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.



### Lightning USB 20G

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



### DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.



### Audio Boost 5

Isolated audio with a high quality audio processor for the most immersive gaming experience



### Core Boost

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



### M.2 Shield FROZR

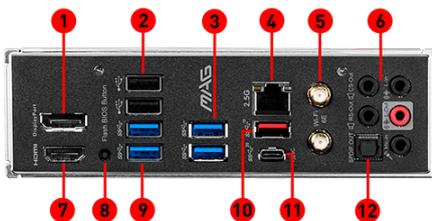
M.2 thermal accessory. Keeps M.2 SSDs safe while preventing throttling, making them run faster.



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## CONNECTIONS



- |                                   |                                 |
|-----------------------------------|---------------------------------|
| 1. DisplayPort                    | 2. USB 2.0                      |
| 3. USB 3.2 Gen 1 5Gbps Type-A     | 4. 2.5G LAN Port                |
| 5. Wi-Fi / Bluetooth Antenna      | 6. HD Audio Connectors          |
| 7. HDMI™                          | 8. Flash BIOS Button            |
| 9. USB 3.2 Gen 1 5Gbps Type-A     | 10. USB 3.2 Gen 2 10Gbps Type-A |
| 11. USB 3.2 Gen 2x2 20Gbps Type-C | 12. Optical S/PDIF OUT          |