



# msi

MOTHERBOARDS

## MAG Z590 TOMAHAWK WIFI

CONQUER THE BATTLEFIELD



### SPECIFICATIONS

<b>Model Name</b>	MAG 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 Support 2-way AMD® CrossFire™ Technology
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI 2.0b, DisplayPort 1.4 - 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, Support Intel® Optane™ Technology, 6x SATA 6Gb/s ports
<b>USB ports</b>	1x USB 3.2 Gen 2x2 20Gbps (Type-C), 2x USB 3.2 Gen 2 10Gbps (Type-A + Type-C), 6x USB 3.2 Gen 1 5Gbps (Type-A), 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



#### Lightning Gen4 Solution

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



#### Extended Heatsink Design

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



#### M.2 Shield FROZR

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



#### Lightning Gen4 Solution

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



#### DDR4 Boost

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



#### Mystic Light

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



#### 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.



#### 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

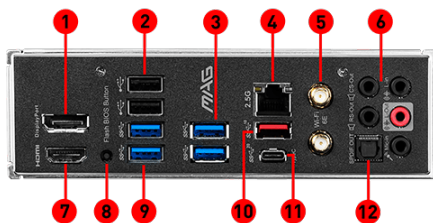
With premium layout and optimized power design to support more cores and provide better performance.



#### Audio Boost 5

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

### 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          |