



SPECIFICATIONS

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|-----------------------------|---|
| Model Name | MAG Z690 TOMAHAWK WIFI DDR4 |
| CPU Support | Supports 12th/ 13th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors |
| CPU Socket | LGA 1700 |
| Chipset | Intel® Z690 Chipset |
| Graphics Interface | 1x PCIe 5.0 x16 slot, 1x PCIe 3.0 x16 slot Supports AMD® CrossFire™ Technology |
| Display Interface | Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 - Requires Processor Graphics |
| Memory Support | 4 DIMMs, Dual Channel DDR4-5200+ (OC) |
| Expansion Slots | 1x PCIe 3.0 x16 slot, 1x PCIe 3.0 x1 slot |
| Storage | 3x M.2 Gen4 x4 64Gbps slots, 1x M.2 Gen3 x4 32Gbps slot, Support Intel® Optane™ Technology, 6x SATA 6Gb/s ports |
| USB ports | 1x USB 3.2 Gen 2x2 20Gbps (Type-C), 4x USB 3.2 Gen 2 10Gbps (Type-A + Type-C), 4x USB 3.2 Gen 1 5Gbps (Type-A), 6x USB 2.0 |
| LAN | 1x Intel® I225-V 2.5G LAN |
| Wireless / Bluetooth | Intel® Wi-Fi 6 module, Bluetooth 5.2 |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost 5 |

FEATURES

- Lightning Gen 5**
 The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.
- Quadruple M.2 Connectors**
 Onboard quadruple M.2 connectors for the maximum storage performance.
- WIFI 6**
 The latest wireless solution supports MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.
- Memory Boost**
 Advanced technology to deliver pure data signals for the best performance, stability and compatibility.
- M.2 Shield FROZR**
 M.2 thermal accessory keeps M.2 SSDs safe while preventing throttling, making them run faster.
- Core Boost**
 With premium layout and fully digital power design to support more cores and provide better performance.
- 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.
- Audio Boost 5**
 Isolated audio with a high quality audio processor for the most immersive gaming experience

CONNECTIONS

1. DisplayPort 1.4
3. USB 3.2 Gen 2 10Gbps Type-A
5. Wi-Fi / Bluetooth Antenna
7. HDMI™ 2.1 Port
9. USB 3.2 Gen 1 5Gbps Type-A
11. USB 3.2 Gen 2x2 20Gbps Type-C

2. USB 2.0 Port
4. 2.5G LAN Port
6. HD Audio Connectors
8. Flash BIOS Button
10. USB 3.2 Gen 2 10Gbps Type-A
12. Optical S/PDIF OUT