## SPECIFICATIONS

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|---|---|
| **Model Name** | MPG Z690 CARBON EK X |
| **CPU Support** | Supports 12th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors |
| **CPU Socket** | LGA 1700 |
| **Chipset** | Intel® Z690 Chipset |
| **Graphics Interface** | 2x PCIe 5.0 x16 slots, 1x PCIe 3.0 x16 slot Support 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 DDR5-6666+ (OC) |
| **Storage** | 4x M.2 Gen4 x4 64Gbps slots, 1x M.2 Gen3 x4 32Gbps slot, supports Intel® Optane™ Technology<br>6 x SATA 6Gbps |
| **USB ports** | 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C),<br>6x USB 3.2 Gen 2 10Gbps (5 Type-A + 1 Type-C),<br>2x USB 3.2 Gen 1 5Gbps (2 Type-A),<br>8x USB 2.0 |
| **LAN** | Intel® I225-V 2.5G LAN |
| **Wireless / Bluetooth** | Intel® Wi-Fi 6E module, Bluetooth 5.2 |
| **Audio** | 8-Channel (7.1) HD Audio with Audio Boost 5 |

## FEATURES

**CPU+ VRM + M.2 Water Cooling**

A custom-designed EK monoblock that offers pristine cooling for CPU, VRM power and M.2 section.

**Flow Indicator**

Instant loop operation and coolant flow overview.

**Lightning Gen 5**

The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.

**Core Boost**

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

**Memory Boost**

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

**Mystic Light RGB LED**

Personalize your PC with 16.8 million colors / fancy lighting 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 Network Solution**

Featuring premium 2.5G LAN with LAN manager to deliver better network experience.

**Lightning USB 20G**

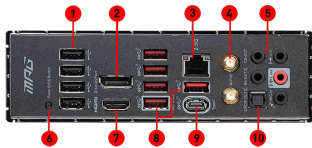Built-in USB 3.2 Gen 2x2 port, offers 20Gbps transmission speed, 4X faster than USB 3.2 Gen 1.

**Audio Boost 5**

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

## CONNECTIONS



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