



FEATURES



Premium Thermal Design

Heavy plated heatsink with heat-pipe / high quality 7W/mK MOSFET thermal pads / extra choke thermal pads / onboard M.2 Shield Frozr.



Latest DDR5 Memory

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



Lightning Gen 5 Solution

The latest Gen 5 M.2 solution with up to 128GB/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 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 for the most immersive gaming experience



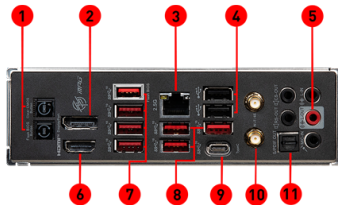
Memory Boost

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

SPECIFICATIONS

| | |
|-----------------------------|---|
| Model Name | MPG B650 CARBON WIFI |
| CPU Support | Supports AMD Ryzen™ 9000 / 8000 / 7000 Series Desktop Processors |
| CPU Socket | Socket AM5 |
| Chipset | AMD B650 Chipset |
| Expansion Slot | 2x PCIe 4.0 x16 slots, 1x PCIe 3.0 x1 slot |
| Display Interface | Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 – Requires Processor Graphics |
| Memory Support | 4 DIMMs, Dual Channel DDR5-7800+MHz (OC) |
| Storage | 1x M.2 Gen5 x4 128Gbps slot 3x M.2 Gen4 x4 64Gbps slots 6x SATA 6Gb/s ports |
| USB ports | 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C) 8x USB 3.2 Gen 2 10Gbps (1 Type-C + 7 Type-A) 2x USB 3.2 Gen 1 5Gbps (2 Type-A) 6x USB 2.0 (Type-A) |
| LAN | 1x Realtek® RTL8125 2.5Gbps LAN |
| Wireless / Bluetooth | AMD Wi-Fi 6E, Bluetooth 5.2 |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost 5 |

CONNECTIONS



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