



SPECIFICATIONS

Model Name	MPG B650 CARBON WIFI
CPU Support	Supports AMD Ryzen™ 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+ (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

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 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.

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 | |