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.
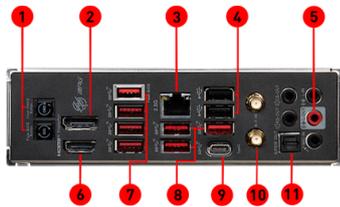
Audio Boost 5

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.

SPECIFICATIONS

Model Name	MPG B650 CARBON WIFI
CPU Support	Supports AMD Ryzen™ 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 DDR5-6600+ (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, Bleutooth 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