MOTHERBOARDS

MPG Z590 CARBON EK X

GAME IN STYLE



FEATURES

CPU + VRM Water Cooling

A custom-designed EK monoblock that offers pristine cooling for both the CPU and VRM power delivery section.

Flow Indicator

Instant loop operation and coolant flow overview.

Lightning Gen4 Solution

The latest Gen4 PCI-E solution with up to 64GB/s bandwidth for maximum transfer speed.

Core Boost

Combining dual 8 pin power connectors and IR digital power design, the GODLIKE is ready for more cores also provide better performance.

Lightning USB 20G

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

2.5G Network Solution

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

Mystic Light RGB LED

Personalize your PC with 16.8 million colors / 29 effects, controlled in one click!

DDR4 Boost

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

Wi-Fi 6E

The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.

Audio Boost 5

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

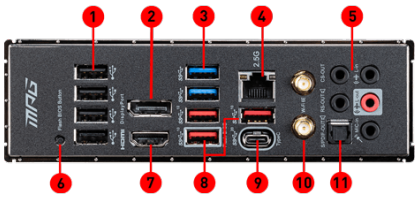
2oz Thickened Copper PCB

An enhanced PCB design improves heat dissipation and performance reliability.

SPECIFICATIONS

Model Name	MPG Z590 CARBON EK X
CPU Support	Supports 10th Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1200
Chipset	Intel® Z590 Chipset
Graphics Interface	2x PCIe 4.0 x16 slots, 1x PCIe 3.0 x16 slot Support 3-way AMD® CrossFire™ Technology
Display Interface	Support 4K@60Hz as specified in HDMI 2.0b, DisplayPort 1.4 – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-5333 (OC)
Expansion Slots	2x PCIe 3.0 x1 slots
Storage	1x M.2 Gen4 x4 64Gb/s slot, 2x M.2 Gen3 x4 32Gb/s slots, supports Intel® Optane™ Technology 6 x SATA 6Gb/s
USB ports	1x USB 3.2 Gen 2x2 20Gbps (1 Type-C) 4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C) 4x USB 3.2 Gen 1 5Gbps (4 Type-A) 8x USB 2.0
LAN	Intel® I225-V 2.5G LAN
Wireless / Bluetooth	Intel® Wi-Fi 6E AX210, Bluetooth 5.2
Audio	8-Channel (7.1) HD Audio with Audio Boost 5

CONNECTIONS



1. USB 2.0
2. DisplayPort
3. USB 3.2 Gen 1 5Gbps Type-A
4. 2.5G LAN
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. Wi-Fi / Bluetooth
11. Optical S/PDIF Out

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