

MSI MPG Z790 Carbon WiFi - motherboard - ATX - LGA1700 Socket - Z790



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SKU	MPG Z790 CARBON WIFI
Product Description:	MSI MPG Z790 Carbon WiFi - motherboard - ATX - LGA1700 Socket - Z790
Product Type:	Motherboard - ATX
Chipset Type:	Intel Z790
Processor Socket:	1 x LGA1700 Socket
Compatible Processors:	(supports 12th and 13th Generation Intel Core / Pentium Gold / Celeron)
Max RAM Size:	256 GB
RAM Supported:	4 DIMM slots - DDR5, non-ECC, unbuffered

General

Product Type:	Motherboard - ATX
Chipset Type:	Intel Z790
Processor Socket:	LGA1700 Socket
Max Processors Qty:	1
Compatible Processors:	(supports 12th and 13th Generation Intel Core / Pentium Gold / Celeron)

Supported RAM

Max Size:	256 GB
Technology:	DDR5
Bus Clock:	5800 MHz (O.C.), 6000 MHz (O.C.), 4800 MHz, 6200 MHz (O.C.), 6400 MHz (O.C.), 6600 MHz (O.C.), 7000 MHz (O.C.), 6800 MHz (O.C.), 7200 MHz (O.C.), 5200 MHz, 5000 MHz, 5600 MHz, 5400 MHz, 7400 MHz (O.C.), 7600 MHz (O.C.)
Supported RAM Integrity Check:	Non-ECC
Registered or Buffered:	Unbuffered

Miscellaneous

Included Accessories:	USB drive, Wi-Fi aerial, cable stickers, JARGB extension cable, 4 x EZ M.2 clip, JARGB extension cable (1 to 2)
Cables Included:	2 x Serial ATA cable
Compliant Standards:	FIPS, FISMA
Width:	24.384 cm
Depth:	30.48 cm

Features

BIOS Features:	M-Flash, MSI ClickBIOS 5
Hardware Features:	4K resolution support, 8 Layer PCB, Clear CMOS Button, MSI Mystic Light, MSI Steel Armor, 2oz Copper PCB, M.2 Shield FROZR, pre-mounted I/O shield, MSI Core Boost, Extended Heatsink Design, DIY Friendly Design, MSI Audio Boost 5, Surface Mount Technology (SMT), MSI Memory Boost, Enlarged Chipset Heatsink, 19+1+1 Phase Power Design, Direct Touch Heat-pipe, flash BIOS button

Expansion / Connectivity

Supported RAM

Features: Dual channel memory architecture, Intel Extreme Memory Profiles (XMP) 3.0

Audio

Type: HD Audio (8-channel)
Audio Codec: Realtek ALC4080
Compliant Standards: High Definition Audio

LAN

Network Interfaces: 2.5 Gigabit Ethernet, Bluetooth 5.3, 802.11a/b/g/n/ac/ax (Wi-Fi 6E)

Expansion / Connectivity

Expansion Slots: 1 x CPU | 4 x DIMM 288-pin | 1 x PCIe 5.0 x16 | 1 x PCIe 4.0 x16 (x4 mode) | 1 x PCIe 3.0 x1 | 1 x M.2 socket (PCIe 5.0 x4 mode) | 3 x M.2 socket (PCIe 4.0 x4 mode) | 1 x M.2 socket (SATA/PCIe 4.0 x4 (NVMe))

Storage Interfaces: SATA-600 -connectors: 6 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 / RAID 5 | PCIe 4.0 -connectors: 4 x M.2 - RAID 0 / RAID 1 / RAID 10 / RAID 5

Interfaces: 1 x HDMI | 2 x USB 3.2 Gen 1 | 6 x USB 3.2 Gen 2 | 1 x USB-C 3.2 Gen2x2 | 1 x USB-C 3.2 Gen 2 | 1 x LAN (2.5Gigabit Ethernet) | 1 x audio line-out - mini-jack | 1 x microphone - mini-jack | 1 x audio line-out (center/subwoofer) - mini-jack | 1 x audio line-out (rear) - mini-jack | 1 x audio line-in - mini-jack | 1 x TOSLINK

Internal Interfaces: 2 x USB 2.0 - header | 1 x USB 3.2 Gen 1 - header | 1 x USB-C 3.2 Gen 2x2 - header | 1 x audio - header

Power Connectors: 24-pin main power connector, 2 x 8-pin ATX12V connectors

