

MSI MPG B650 EDGE WIFI - motherboard - ATX - Socket AM5 - AMD B650



04-11-2024

SKU	MPG B650 EDGE WIFI
Product Description:	MSI MPG B650 EDGE WIFI - motherboard - ATX - Socket AM5 - AMD B650
Product Type:	Motherboard - ATX
Chipset Type:	AMD B650 / Nuvoton NCT6687D-R
Processor Socket:	1 x Socket AM5
Compatible Processors:	(supports Ryzen 7000 Series)
Max RAM Size:	128 GB
RAM Supported:	4 DIMM slots - DDR5, non-ECC, unbuffered

General

Product Type:	Motherboard - ATX
Chipset Type:	AMD B650 / Nuvoton NCT6687D-R
Processor Socket:	Socket AM5
Max Processors Qty:	1
Compatible Processors:	(supports Ryzen 7000 Series)

Supported RAM

Max Size:	128 GB
Technology:	DDR5
Bus Clock:	4800 MHz, 5000 MHz (O.C.), 5200 MHz (O.C.), 5400 MHz (O.C.), 5600 MHz (O.C.), 5800 MHz (O.C.), 6000 MHz (O.C.), 6200 MHz (O.C.), 6400 MHz (O.C.), 6600 MHz (O.C.)
Supported RAM Integrity Check:	Non-ECC
Registered or Buffered:	Unbuffered
Features:	Dual channel memory architecture, AMD EXPO technology, A-XMP support, Intel Extreme Memory Profiles (XMP) 3.0

Miscellaneous

Included Accessories:	Wi-Fi aerial, 2 x EZ M.2 clips, cable stickers, 2 x M.2 Hex screws
Cables Included:	2 x Serial ATA cable
Compliant Standards:	DisplayPort 1.4, RED 2014/53/EU, Directive 2014/35/EU, EMC 2014/30/EU, ErP 2009/125/EC, ROHS Directive 2011/65/EU
Width:	24.384 cm
Depth:	30.48 cm

Features

BIOS Type:	AMI
BIOS Features:	UEFI BIOS, ACPI 6.4 support, SMBIOS 3.4 support, Multilingual BIOS
Hardware Features:	4K resolution support, flash BIOS button, Windows 11 compatible, MSI Mystic Light, MSI Core Boost, pre-mounted I/O shield, MSI Steel Armor, 14+2+1 Phase Power Design, 6 Layer PCB, 2oz Copper PCB, Extended Heatsink Design, M.2 Shield FROZR, Enlarged Chipset Heatsink, double side M.2 Shield FROZR, Water Pump Header, DIY Friendly Design, Surface Mount Technology (SMT), MSI Audio Boost 5

Audio

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

LAN

Network Controller:	Dragon RTL8125BG
Network Interfaces:	2.5 Gigabit Ethernet, 802.11a/b/g/n/ac/ax (Wi-Fi 6E), Bluetooth 5.2

Expansion / Connectivity

Expansion Slots:	1 x CPU ; 4 x DIMM 288-pin ; 1 x PCIe 4.0 x16 ; 1 x PCIe 4.0 x16 (x2 mode) ; 1 x PCIe 3.0 x1 ; 2 x M.2 socket (PCIe 4.0 x4 mode) ; 1 x M.2 socket (PCIe 5.0 x4 mode)
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Storage Interfaces:	SATA-600 -connectors: 6 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 ; PCIe 4.0 - connectors: 2 x M.2 - RAID 0 / RAID 1 ; PCIe 5.0 -connectors: 1 x M.2
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Interfaces:	1 x HDMI ; 1 x DisplayPort ; 1 x LAN (2.5Gigabit Ethernet) ; 4 x USB 3.2 Gen 1 ; 1 x audio line-out (rear) - mini-jack ; 1 x microphone - mini-jack ; 1 x audio line-out (front surround) - mini-jack ; 2 x USB 2.0 ; 3 x USB 3.2 Gen 2 ; 1 x USB-C 3.2 Gen2x2 ; 1 x audio line-out (center/subwoofer) - mini-jack ; 1 x audio line-out (side surround) - mini-jack ; 1 x SPDIF out
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Internal Interfaces:	1 x USB-C 3.2 Gen 2 - header ; 2 x USB 3.2 Gen 1 - header ; 4 x USB 2.0 - header ; 1 x audio - header
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Power Connectors:	24-pin main power connector, 2 x 8-pin ATX12V connectors
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