

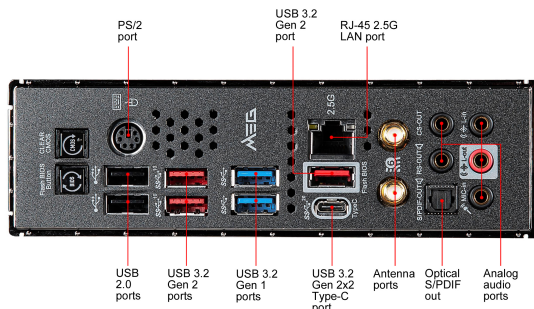
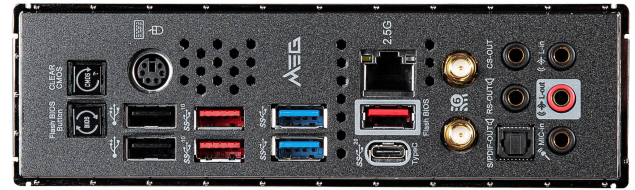
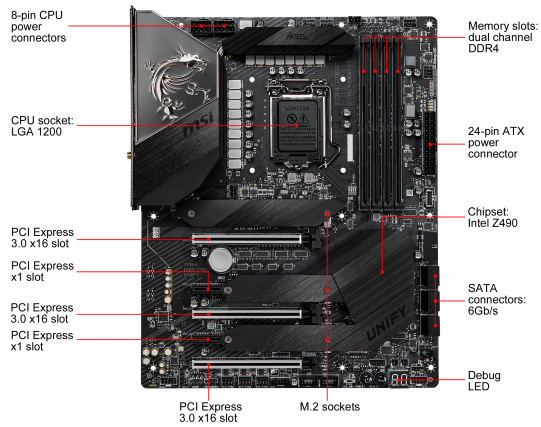


MSI MEG Z490 UNIFY LGA 1200 ATX Motherboard

\$294.95

Product Images







Short Description

The MSI MEG Z490 UNIFY LGA 1200 ATX Motherboard is built on the Intel Z490 chipset, supporting 10th generation Intel Core and Pentium Gold/Celeron processors with an LGA 1200 socket. It has four memory slots for up to 128GB of dual-channel DDR4 RAM, which can be overclocked up to 4800 MHz and above. For storage, it's equipped with six SATA III ports and three M.2 slots.

Description

The MSI MEG Z490 UNIFY LGA 1200 ATX Motherboard is built on the Intel Z490 chipset, supporting 10th generation Intel Core and Pentium Gold/Celeron processors with an LGA 1200 socket. It has four memory slots for up to 128GB of dual-channel DDR4 RAM, which can be overclocked up to 4800 MHz and above. For storage, it's equipped with six SATA III ports and three M.2 slots. There are three PCIe 3.0 x16 slots for graphics cards and two PCIe 3.0 x1 slots for other PCI-based hardware. Other integrated features include Realtek 8125B 2.5 GbE and Realtek ALC1220 7.1-channel HD audio with an ESS SABRE 9018Q2C combo DAC.

OUTSTANDING COOLING SOLUTION



- 4-Stage Fan Design** - 4-stage fan design with 4-stage fan design for optimal cooling performance.
- Direct Die Cooling** - Direct die cooling technology for efficient heat dissipation.
- 4-Stage Fan Design** - 4-stage fan design with 4-stage fan design for optimal cooling performance.

UNLIMITED CONNECTIVITY



- 8 SATA 6Gbps** - 8 SATA 6Gbps ports for high-speed storage.
- 4x USB 3.2 Gen 2** - 4x USB 3.2 Gen 2 ports for fast data transfer.
- 4x USB 2.0** - 4x USB 2.0 ports for standard connectivity.

STABLE CONNECTION OF YOUR SYSTEM



- 4-Layer PCB Design** - 4-layer PCB design for enhanced stability.
- Auto-Overcurrent Protection** - Auto-overcurrent protection for system safety.
- PCIe Signal Shielding** - PCIe signal shielding for signal integrity.



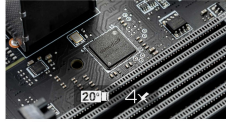
THERMAL SOLUTION FOR HIGH PERFORMANCE MULTI CORE PROCESSORS



TRIPLE TURBO M.2 WITH SHIELD PROTECT



EXTREME POWER DESIGN



ULTRA-FAST LIGHTNING USB 20G



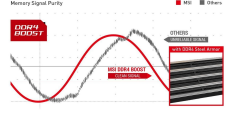
PRE-INSTALLED IO SHIELDING



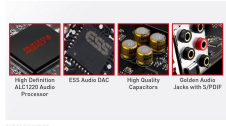
MAXIMUM DATA TRANSFER WITH 2.5G LAN



WiFi 6 & BLUETOOTH



UNMATCHED MEMORY PERFORMANCE



AUDIO BOOST HD



MULTIPLE GPU SUPPORT AND PCIe STEEL ARMOR

Intel Z490 Chipset

The Intel Z490 chipset is designed around 10th generation Intel processors. Along with multiple improvements and a socket change, it also features increased PCIe lanes, which is beneficial for graphics cards, networking devices, NVMe drives, and more.

Cooling

The MEG Z490 UNIFY utilizes heavy-duty heatsinks on the MOSFETs for reliable processor power delivery and on the chipset to ensure the system stays operational under intense workloads. It's also equipped with multiple DC/PWM fan headers for users to connect additional cooling solutions. Users can set their cooling preference (Boost/Balance/Silence) as needed within the Dragon Center software or its UEFI BIOS. Moreover, MSI's M.2 SHIELD FROZR heatsink helps to prevent SSD throttling.

CPU

A combination of an optimized circuit layout and MSI's CoreBoost CPU power delivery system ensures performance and stability for high-end processors. Additional features include load-line calibration, overvoltage protection, a digital power design, and double power connectors.

Memory

MSI motherboards feature an optimized memory circuit layout and extensive compatibility testing with major memory manufacturers. Users can also easily overclock their RAM with A-XMP profiles within BIOS.

Storage

This motherboard is equipped with three M.2 slots and six SATA III ports for traditional hard drives. Additional features include Intel Optane support and M.2 Genie for easily setting up RAID configurations.

Wi-Fi 6 (802.11ax)

Wi-Fi 6 (802.11ax) is the next-gen Wi-Fi standard, improving a variety of features including data rates, capacity, performance in dense environments, and power efficiency.

USB 3.2 Gen 1 & Gen 2

USB 3.2 Gen 1 features a maximum throughput of 5 Gb/s. USB 3.2 Gen 1, USB 3.1 Gen 1, and USB 3.0 are synonymous. Doubling the speed of its predecessor, USB 3.2 Gen 2 features a maximum throughput of 10 Gb/s when used with compatible devices and is synonymous with USB 3.1 Gen 2.

Audio

The MEG Z490 UNIFY is built with multiple hardware and software enhancements to improve sound quality including a Realtek ALC1220 audio processor, ESS SABRE 9018Q2C DAC, high quality audio capacitors, HD audio connectors, and an isolated left- and right-channel design.

MSI Z490 Unify Specs

CPU

Chipset Intel Z490

CPU Socket LGA 1200

Back Panel I/O

USB 2 x USB 2.0 Type-A
2 x USB 3.1 / USB 3.2 Gen 1 Type-A
3 x USB 3.1 / USB 3.2 Gen 2 Type-A
1 x USB 3.2 Gen 2x2 Type-C

Thunderbolt *None*

Display *None*

Audio 5 x 3.5 mm
1 x S/PDIF

Ethernet / Controller 1 x Realtek 8125B 2.5Gigabit

PS/2 1 x PS/2

Wi-Fi Antenna 2 x Connector

Buttons BIOS Flashback, Clear CMOS

Memory

Memory Slots 4 x 288-Pin

Memory Support DDR4 2133, 2666, 2933, 4000, 4266, 4400, 4800 MHz

Maximum Capacity 128 GB

Channel Architecture Dual Channel

ECC Support Non-ECC, ECC (Non-ECC Mode) Unbuffered

Storage Expansion

SATA 6 x SATA III

M.2 1 x M Key 2242, 2260, 2280, 22110 (PCIe 3.0 x4, SATA III)
1 x M Key 2242, 2260, 2280 (PCIe 3.0 x4, SATA III)
1 x M Key 2242, 2260, 2280 (PCIe 3.0 x4)

U.2 *None*

Optane Memory Support Yes

RAID Support	RAID 0, 1, 5, 10 (SATA) RAID 0, 1, 5 (M.2)
Internal I/O	
Expansion Slots	3 x PCIe 3.0 x16 2 x PCIe 3.0 x1
USB	1 x USB 3.1 / USB 3.2 Gen 2 Header (Supports 1 USB Type-C Port) 1 x USB 3.1 / USB 3.2 Gen 1 Header (Supports 2 USB Type-A Port) 2 x USB 2.0 Header (Supports 4 USB Type-A Port)
Multi-GPU Support	2-Way NVIDIA SLI 3-Way AMD CrossFireX
Air Cooling	1 x 4-Pin CPU 6 x 4-Pin System
Liquid Cooling	1 x 4-Pin Pump
Power Connectors	1 x 24-Pin Mainboard 2 x 8-Pin CPU
Security	Chassis Intrusion
LED Header	4 x RGB
Audio	<i>None</i>
Diagnostics	Power, Reset, Slow Mode
Front Panel I/O	
I/O Connection Headers	AAFP, USB 3.1 / USB 3.2 Gen 1
Audio	
Audio Codec	Realtek ALC1220 (7.1-Channel)
DAC	ESS SABRE 9018Q2C
Wireless	
Bluetooth	5.1
Wi-Fi	Wi-Fi 6 (802.11ax) (MU-MIMO)
Module Support	1 E Key M.2
Software	
Supported Operating Systems	Windows 10 (64-Bit)
Physical	
Form Factor	ATX
Dimensions	9.6 x 12" / 243.84 x 304.80 mm
Packaging Info	

Package Weight 4.72 lb
Box Dimensions (LxWxH) 14.6 x 10.8 x 3.5"

Additional Information

Brand	MSI
SKU	Z490UNIFY
Weight	7.0000
Processor Manufacturer	Intel
Chipset	Z490

