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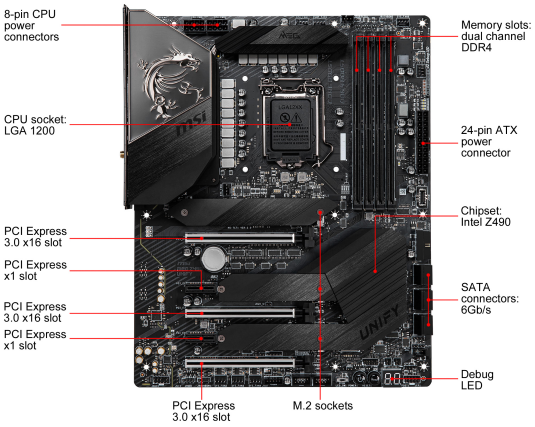
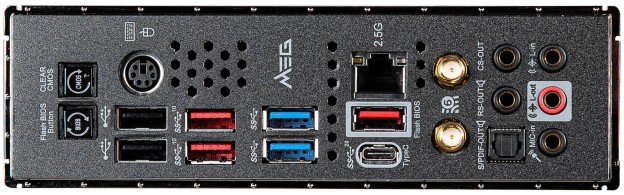
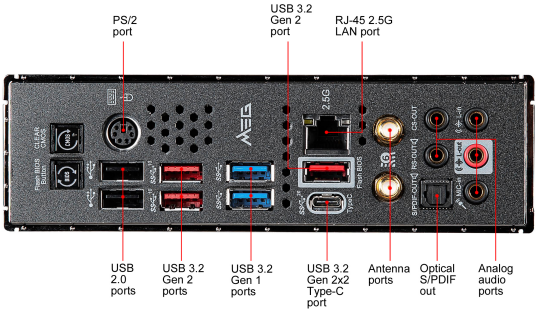
MSI MEG Z490 UNIFY LGA 1200 ATX Motherboard

$294.95

Product Images


8-pin CPU power connectors
CPU socket: LGA 1200
PCI Express 3.0 x16 slot
PCI Express x1 slot
PCI Express 3.0 x16 slot
PCI Express x1 slot
PCI Express 3.0 x16 slot
M.2 sockets
Memory slots: dual channel DDR4
24-pin ATX power connector
Chipset: Intel Z490
SATA connectors: 6Gb/s
Debug LED




PS/2 port
USB 3.2 Gen 2 port
RJ-45 2.5G LAN port
USB 2.0 ports
USB 3.2 Gen 2 ports
USB 3.2 Gen 1 ports
USB 3.2 Gen 2x2 Type-C port
Antenna ports
Optical S/PDIF out
Analog audio ports

Wi-Fi Antenna
User Manual
Promotion Card
Driver DVD
Quick Installation Guide
Product Registration Card
MSI Product Catalog
MSI Case Badge
1 to 2 RGB LED Extension Y Cable
Rainbow RGB LED Extension Cable
CORSAIR RGB LED Extension Cable
4 x SATA Cables
SATA Cable Labels

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.

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OUTSTANDING COOLING SOLUTION

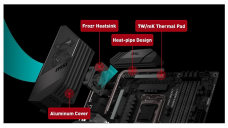
Frozen Heatsink Design with Dark Heat Pipe Technology
Aluminum Cover with Pitman Thermal Pad
Heat-pipe
M.2 Shield Frozer

UNLIMITED CONNECTIVITY

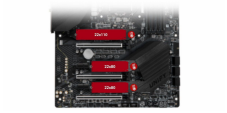
Lightning USB 20G
Lanzar Wi-Fi 6 Solution
2.5G LAN
Triple Turbo M.2 Connectors

STABLE CORNERSTONE OF YOUR SYSTEM

6-Layer PCB Design
PCIe Steel Armor
EL Digital PWM, 1G Phased with 90A SPS
Boost Button

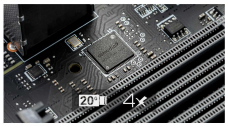


THERMAL SOLUTION FOR HIGH PERFORMANCE MULTI CORE PROCESSORS



TRIPLE TURBO M.2 WITH SHIELD FROZER

EXTREME POWER DESIGN

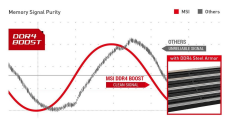


ULTRA-FAST LIGHTNING USB 20G

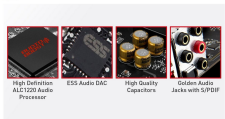
PRE-INSTALLED IO SHIELDING

MAXIMUM DATA TRANSFER WITH 2.5G LAN

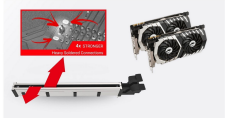
WI-FI 6 & BLUETOOTH



UNMATCHED MEMORY PERFORMANCE


High Definition ALC1220 Audio Processor
ESS Audio DAC
High Quality Capacitors
Golden Audio Jacks with S/PDIF

AUDIO BOOST HD



MULTIPLE GPU SUPPORT AND PCI-E 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 deign, 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	*None*
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