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1701 R. J. Conlan Blvd.
NE, Unit #5
Palm Bay, FL 32905, USA

Toll Free: 888-381-8222

www.performance-pcs.com
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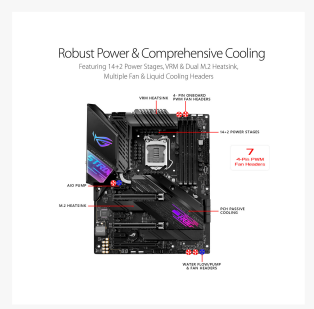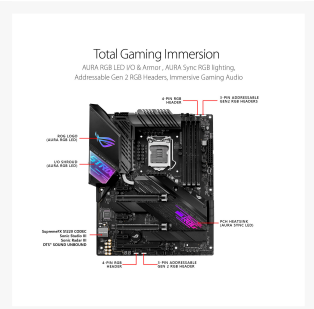See Our Instagram

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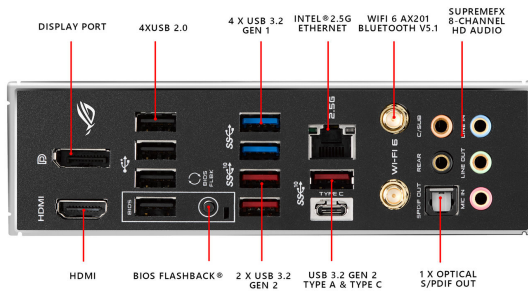# ASUS Republic of Gamers Strix Z490-E Gaming LGA 1200 ATX Motherboard

$299.99

Product Images

Full Gaming Connectivity

Intel®WiFi 6 AX201, Intel®2.5G LAN,
SupremeFX 8-Channel HD Audio and BIOS FlashBack

DISPLAY PORT 4XUSB 2.0 4 X USB 3.2 GEN 1 INTEL®2.5G ETHERNET WIFI 6 AX201 BLUETOOTH V5.1 SUPREMEFX 8-CHANNEL HD AUDIO

HDMI BIOS FLASHBACK® 2 X USB 3.2 GEN 2 USB 3.2 GEN 2 TYPE A & TYPE C 1 X OPTICAL S/PDIF OUT

WiFi6

What's in the Box

Exclusive ROG Strix Z490-E Gaming Bundle

MANUAL
SUPPORT DVD
ROG STICKER
ASSISTANT MOS FAN
ADDRESSABLE RGB EXTENSION CABLE
ROG KEY CHAIN
4X 2-IN-1 SATA CABLES
ASUS 2X2 DUAL BAND WIFI ANTENNA

Short Description

Powered exclusively by 10th Generation Intel Core processors, the Republic of Gamers Strix Z490-E Gaming LGA 1200 ATX Motherboard from ASUS features boosted power delivery and an optimized cooling design with an even greater surface area for improved heat dissipation. It also delivers AI enhancements and intuitive dashboards to help users overclock and tweak other various parameters more easily. The ROG Strix Z490-E Gaming fits in ATX sized cases, supports the LGA 1200 socket and Intel Z4900 chipset, and is compatible with Windows.

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The ATX form factor of the ROG Strix Z490-E Gaming can support up to 128GB of DDR4 RAM over four slots, or 32GB per slot, at speeds of up to 4600 MHz. For storage, there are six SATA III 6 Gb/s ports and two M.2 Sockets with M key, one of which supports type 2242, 2260, 2280, and 22110 PCIe 3.0 x4 and SATA SSDs, while the other supports type 2242, 2260, 2280, and 22110 PCIe 3.0 x4 SSDs.

There is also one USB 3.2 Gen 2 Type-C port (rear panel), three USB 3.2 Gen 2 Type-A ports (rear panel), two USB 3.2 Gen 1 Type-A ports (rear panel), four USB 2.0 Type-A ports (rear panel), one USB 3.2 Gen 2 connector (front panel), plus additional internal USB headers that support USB 3.2 Gen 1 and USB 2.0. For those looking to expand their system using PCIe, there are two PCIe 3.0/2.0 x16 slots (x16 or x8/x8), one PCIe 3.0 x16 slot (max at x4), and three PCIe x1 slots.

For delivering sharp, clear graphics, this motherboard has integrated HDMI 1.4 and DisplayPort 1.4 outputs. For users looking to take advantage of multi-GPUs, the ROG Strix Z490-E Gaming supports NVIDIA 2-Way SLI and AMD 3-Way CrossFireX technologies.

Using the ROG SupremeFX S1220 HD audio codec, the ROG Strix Z490-E Gaming can support audio with higher fidelity than standard controllers. This motherboard is also equipped with features such as OptiMem II, AURA Sync, Aura RGB Srip Headers, SafeSlot, Q-LED, RAMCache III, UEFI BIOS, 2.5 Gigabit Ethernet, dual-band Wi-Fi 6 (802.11ax), Bluetooth 5.1, and more. This motherboard is protected by a limited 3-year warranty.

Features

General Features

Intel LGA 1200 Socket

This motherboard is designed to unleash the performance of 10th Gen Intel Core processors.

Robust Power Solution

The ROG Strix Z490-E Gaming features 14+2 power stages with a ProCool II power connector, high-quality alloy chokes, and durable capacitors to provide reliable power even when the CPU is pushed to its limit.

Optimized Thermal Design

Expect a comprehensive heatsink, heatpipe, and fan headers that feature low-noise AI cooling to balance thermals and acoustics by reducing fan speeds and maintaining a 41°F / 5°C delta.

High-Performance Gaming Network

Network connectivity includes Intel 2.5Gb Ethernet and Wi-Fi 6 (802.11ax) with ASUS LanGuard.

Gaming Connectivity

Users will be able to take advantage of HDMI 1.4, DisplayPort 1.4, dual M.2 slots, and front panel USB 3.2 Gen 2 Type-C connectivity.

Gaming Audio

Experience high-fidelity audio with the SupremeFX S1220A codec, DTS Sound Unbound, and Sonic Studio III draws you deeper into the game action.

Personalization

ASUS-exclusive Aura Sync RGB lighting, including RGB headers and Gen 2 addressable headers provide a customizable look.

Specifications

ASUS Strix Z490-E Specs

CPU

Chipset	Intel Z490
CPU Socket	LGA 1200

Back Panel I/O

USB	1 x USB 3.1 / USB 3.2 Gen 2 Type-C 3 x USB 3.1 / USB 3.2 Gen 2 Type-A 2 x USB 3.1 / USB 3.2 Gen 1 Type-A 2 x USB 2.0 Type-A
Display	1 x HDMI 1.4 1 x DisplayPort 1.4
Ethernet / Controller	1 x Intel I225V 2.5Gigabit

Memory

Memory Slots	4 x 288-Pin
Memory Support	DDR4 4600 MHz
Maximum Capacity	128 GB

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, 22110 (PCIe 3.0 x4)
U.2	*None*
RAID Support	*None*

Internal I/O

Expansion Slots	2 x PCIe 3.0 x16 (x16 mode) 1 x PCIe 3.0 x16 (x4 mode) 3 x PCIe x1
USB	2 x USB 3.1 / USB 3.2 Gen 1 Header (Supports 4 USB Type-A Port) 4 x USB 2.0 Header (Supports 8 USB Type-A Port)
Multi-GPU Support	3-Way AMD CrossFireX 2-Way NVIDIA SLI
LED Header	2 x RGB

Front Panel I/O

I/O Connection Headers	USB 3.1 / USB 3.2 Gen 2

Audio

Audio Codec	SupremeFX S1220A (8-Channel)

Wireless

Bluetooth	5.1
Wi-Fi	Wi-Fi 6 (802.11ax)

Physical

Form Factor	ATX

Packaging Info

| Package Weight | 4.73 lb |
| Box Dimensions (LxWxH) | 13.6 x 10.8 x 3.1" |

Additional Information

Brand	ASUS
SKU	90MB12P0-M0AAY0
Weight	8.0000
Processor Manufacturer	Intel
Chipset	Z490