



ASUS ROG STRIX Z690-E GAMING WIFI Intel Z690 LGA 1700 ATX



Model: 90MB18J0-M0EAY0

Manufacturer: ASUS

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ROG STRIX Z690-E GAMING WIFI

ROG Strix Z690-E Gaming WiFi puts 12th Gen Intel® Core™ processors at center stage, with beefed-up power delivery, cooling, cutting-edge connectivity options, and a range of accoutrements that effortlessly propel builds to maximum performance. This series flagship is your ticket to next-level gaming.

POWER DESIGN

Digital power control and an array of power stages provide the muscle needed to control the latest Intel CPUs.

Integrated I/O Cover & VRM Heatsinks

Two thick VRM heatsinks connected by a heat pipe and bonded to a pre-mounted metal I/O shield provide ample surface area and mass to handle the power needs of high-performance 12th Gen Intel processors.

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Thermal Pads

High-grade thermal pads efficiently transfer heat from the inductor and phase array to the heatsink.

M.2 Combo-Sink

An M.2 heatsink with a direct-contact heat pipe delivers ample surface area, enabling optimal running temperatures for PCIe 5.0 M.2 NVMe drives, even when airflow is restricted.

Two M.2 Backplates

The integrated M.2 backplate help ensure that high-performance drives deliver peak performance, even when airflow is restricted.

Two M.2 Heatsinks

The M.2 heatsinks keep the M.2 SSDs at optimum operating temperature for consistent performance and reliability.

TWO-WAY AI NOISE CANCELATION

This powerful ASUS-exclusive utility leverages a massive deep-learning database to reduce background noise from the microphone* and incoming audio while preserving voices. Distracting keyboard clatter, mouse clicks and other ambient noises are removed so you can hear and be heard with perfect clarity while gaming or during calls.

*A splitter cable is necessary when using a 3.5 mm headset.

AI OVERCLOCKING

ROG AI Overclocking is an intelligent utility that helps you get the most out of your build by automatically profiling your CPU and cooling system to predict optimal voltage and frequency settings.

Accessible via the AI Suite software in Windows or directly through the UEFI, the intuitive AI Overclocking user interface enables users of all levels. A range of customizable settings are available for seasoned overclockers, and an auto-tuning option is available for beginners.

AI COOLING

ASUS AI Cooling technology automatically manages and controls motherboard-connected fans to ensure optimal settings based on current system load and temperature.

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AI NETWORKING

The proprietary ROG GameFirst VI utility is designed to help all users — beginners, experts, and everyone in between — optimize network settings to ensure smooth online gameplay. New to this generation, GameFirst VI features AI-enhanced identification and boost technologies to ensure faster and smarter network optimization.

PCIe Performance

With one PCIe 5.0 M.2 slot delivering twice the speed of PCIe 4.0, two additional slots with PCIe 4.0, and two more 4.0 slots available on the bundled ROG Hyper M.2 Card, ROG Strix Z690-E Gaming WiFi leverages mighty CPU and chipset bandwidth to deliver the latest data transfers, Intel NVM Express® RAID, and high-capacity drive options that blaze past traditional SATA-based SSDs.

WIFI 6E (802.11 AX)

Onboard WiFi 6E technology takes advantage of the newly available radio spectrum in the 6 GHz band. It provides up to three times the bandwidth of the 5 GHz band and up to seven 160 MHz bands to deliver ultrafast wireless networking speeds and improved capacity as well as better performance in dense wireless environments.

*WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.

SUPREMEFX

ROG SupremeFX is a unique blend of hardware and software that provides superior audio. In ROG Strix Z690-E Gaming WiFi, SupremeFX features the ALC4080 codec to increase playback resolution from 192 kHz to 384 kHz across all channels. The front-panel output is streamed through a highly integrated Savitech amplifier that's capable of driving a wide variety of gaming headsets and high-fidelity headphones.

UNDENIABLY ROG STRIX

A specially illuminated acrylic display on the I/O cover gives the illusion that the circuit board is visible beneath an RGB ROG logo. Meanwhile, a pattern of grids and slashes, touches of mirror finish, and a leather ROG logo deliver a variety of carefully crafted surface textures. Last but not least, a distinctive lighting pattern built into the M.2 Combo-Sink finishes off a colorful tour of the ROG worldview.

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PCIe SLOT Q-RELEASE

A physical button unlocks the first PCIe slot's security latch with one tap, greatly simplifying the process of detaching a PCIe card from the motherboard when it's time to upgrade to a new GPU or other compatible device.

CERTIFIED COMPATIBILITY

ROG Strix motherboards undergo an extensive certification program to ensure compatibility with the widest range of components and devices. Our Qualified Vendor List (QVL) provides a reference for identifying guaranteed-compatible components and memory.

ASUS AIO coolers are also compatible with a wide variety of CPUs, up to and including 12th Gen Intel processors, giving you ultimate flexibility to cool the CPU that fits your needs.

THE ROG STRIX ECOSYSTEM AWAITS

Level up your game with ROG Strix. Enjoy complementary aesthetics, control and compatibility across AIO coolers, cases, peripherals, and much more. ROG offers more choices than any other brand.

UEFI BIOS

The renowned ROG UEFI (BIOS) provides everything you need to configure, tweak, and tune your rig. It offers intelligently simplified options for newcomers to PC DIY, as well as more comprehensive features for seasoned veterans.

5-WAY OPTIMIZATION

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