ASUS ROG STRIX X670E-I GAMING WIFI

Artikel	128045
Herstellernummer	90MB1B70-M0EAY0
EAN	4711081905578

ASUS

The ROG Strix X670E-I Gaming WiFi crams the latest tech into the diminutive mini-ITX footprint and then branches out with the ROG Hive to put vital controls and I/O at your fingertips. At motherboard level, PCIe 5.0 slots for graphics and storage ride alongside dual-channel DDR5 to bring large-scale bandwidth to games and CPU-intensive workloads. Heavyweight power delivery and vertically-stacked heatsinks crush thermals and lay a potent foundation for exclusive ROG overclocking tools to push performance boundaries. With all this and more, this tiny titan dishes up a space-saving AM5 build that allows you to comfortably host larger displays and a spread of ROG gaming peripherals on your desktop.

ALL-ROUND PERFORMANCE
Robust power delivery, innovative overclocking tools, and comprehensive cooling controls make the ROG Strix X670E-I more than a match for larger rivals. Load up and freely customize your AMD Ryzen™ 7000 Series processor to shred through everything.

PCIE PERFORMANCE
The ROG Strix X670E-I neatly increases mini-ITX expansion capabilities with vertically-stacked PCIe 5.0 and PCIe 4.0 M.2 slots. PCIe 5.0 support also extends to the x16 slot, which is reinforced with SafeSlot, providing structural support and bandwidth to handle large and powerful next-gen GPUs.

AI OVERCLOCKING
Tuning is now faster and smarter than ever before. ASUS AI Overclocking profiles the CPU and cooling to predict the optimal configuration and push the system to its limits. Predicted values can be engaged automatically or used as a launching ground for further experimentation.

DYNAMIC OC SWITCHER
Lightly-threaded tasks get fantastic uplift using AMD Precision Boost Overdrive (PBO), but all-core frequencies can be pushed higher via traditional overclocking. The Dynamic OC Switcher dynamically engages PBO or your preferred settings based on the CPU current or temperature, giving you the best of both worlds. Core Flex and PBO Enhancement can also be deployed to work in tandem with the Dynamic OC Switcher and further bolster performance on both sides of the aisle.

CORE FLEX
Core Flex empowers you to smash limits farther than ever before by letting you control current, power, and thermals in creative new ways. In its simplest form, you can let your system run unrestricted during lighter loads and set breakpoints to gradually reduce power consumption as temperature increases. But the system is extremely adaptable, supporting multiple user-controlled functions that can manipulate parameters independently so that you can bend CPU performance to your will.

PBO ENHANCEMENT
AMD Precision Boost Overdrive (PBO) pushes the CPU current and voltage budget to opportunistically increase performance. By aggressively tuning the PBO parameters, AMD’s algorithm can leverage the motherboard’s robust power solution to ramp up performance even higher.

POWER ARCHITECTURE

10 + 2 power stages, strategically teamed to rapidly respond to load changes and drive Ryzen™ 7000 through any workload.

ALLOY CHOKES AND DURABLE CAPACITORS
Hi-end chokes and durable capacitors are engineered to resist extreme temperatures, enabling performance that exceeds industry standards.

8-PIN PROCOOL II POWER CONNECTOR
A ProCool II connector is precision-built to ensure flush contact with PSU power lines. A metal sheath improves heat dissipation and lowers electrical impedance.

DIGI+ POWER CONTROL
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency, and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

TEN-LAYER PCB
A multi-layered printed circuit board design quickly dissipates heat around the voltage regulators to improve overall system stability and provide the CPU with more overclocking headroom.

DDR5 STRENGTH
For those who want to fly past stock DDR5 speeds, the Strix X670E-I is primed and ready for enthusiast-grade kits courtesy of vast AMD EXtended Profiles for Overclocking (EXPO) support. Seasoned veterans can further tweak performance via the extensive array of settings in the UEFI.

AEMP
ASUS Enhanced Memory Profile (AEMP) is an exclusive firmware feature for PMIC-restricted memory modules. AEMP automatically detects the memory chips on your kit and then presents optimized frequency, timing and voltage profiles that you can effortlessly apply to unleash performance.

VRM
The VRM heatsink extends over the rear I/O to maximize surface area and includes active cooling to deftly handle power thermals of the latest AMD processors - while leaving clearance for large CPU coolers.

HIGH-CONDUCTIVITY THERMAL PADS
High-quality thermal pads are utilized between power stages and heatsinks, helping to improve heat transfer and reduce VRM operating temperatures.

M.2 AND CHIPSET HEATSINKS
To save space, both on-board M.2 slots and heatsinks are stacked together over the chipset. And to keep the thermals of installed high-performance drives in check, the entire array is cooled by an embedded fan.

CPU FAN HEADERS
A dedicated PWM/DC fan header provides easy access to CPU coolers.

AIO PUMP FAN HEADER
A dedicated PWM/DC header connects self-contained water-cooling setups.

4-PIN PWM/DC FAN HEADERs
Header supports auto-detection of PWM or DC fans.

LEADING CONNECTIVITIY
The ATX experience thoughtfully scaled into mini-ITX: build easier the ROG FPS-II card, and grace your desktop with the ROG Hive, dual USB4® ports, and support for the latest WiFi 6E standard.

ROG STRIX HIVE
The all-new ROG Strix Hive brings critical controls and I/O within arm's reach, moving them from the cramped quarters of an SFF chassis to a compact peripheral that sits on the desktop. DIY-friendly buttons and diagnostic LEDs are brought front and center along with a large volume dial. On the sides, a varied group of I/O ports handle audio input and output and provide convenient connectivity for grab-and-go peripherals.

ROG FPS-II Card
The ROG FPS-II card groups I/O onto a vertically-mounted card, saving valuable on-board space and tidying cable management. Connections can be made before the card is installed, greatly simplifying installation in cramped quarters. On board are two SATA ports, front panel headers, two USB 2.0 headers (allows for three USB 2.0 connections), a CPU_OV jumper for extreme overclocking, an Alteration mode switch, and a Clear CMOS header to reset BIOS to factory default.

DUAL USB4® PORTS

Each USB4® port delivers up to 40 Gbps of bidirectional bandwidth for the latest super-speed devices and drives. External display support reaches up to 8K output if one of the ports is in use, or both can be employed for dual 4K displays.*
*VGA resolution support depends on CPU or graphic card capabilities.

WIFI 6E
Onboard WiFi 6E technology takes advantage of newly available spectrum in the 6 GHz band to provide up to seven 160 MHz channels for ultrafast throughput and better performance in dense wireless environments.
*WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.

Intel 2.5G Ethernet
Onboard Intel® 2.5 Gbps Ethernet gives your wired connection a boost, with speeds that are 2.5 times faster than standard Ethernet connections for speedy file transfers, low-latency gaming, and high-res video streaming.

PLAY IN STYLE
The dark ROG Strix colorway pairs perfectly with other products from the diverse ROG ecosystem, allowing you to create a fully customized gaming setup that reflects your personal style.

UNDENIABLY ROG STRIX
A perforated metal mesh design on the I/O shield and M.2 heatsink can catch the light of internal RGB accessories or elegantly fade into the darkness of stealthy builds. Cypertext and angular accents make this board an unmistakable member of the ROG Strix series.

COOLER COMPATIBILITY
The ROG Strix X670E-I bears the same mounting hole alignment as AM4 platforms, so it is backward compatible with many existing coolers, including all AIO offerings from ASUS and ROG.

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.

SOFTWARE UTILITIES
ROG-exclusive software delivers intuitive audio tuning and gaming enhancements so you can configure your gaming build the way you want.

AI COOLING II
Balance the thermals and acoustics of any build with a single click. A proprietary ASUS algorithm slashes unnecessary noise while running a quick stress test, and then monitors CPU temperatures to dynamically adjust fans to optimal speeds.

TWO-WAY AI NOISE CANCELATION
This utility leverages a massive deep-learning database to reduce over 5 million types of background noise from incoming or outgoing audio, helping ensure crystal-clear communication in games or calls.

AI NETWORKING
GameFirst VI optimizes networking performance by allocating bandwidth in real time based on application usage scenarios and corresponding learning algorithms.

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.

ADVANCED MODE
When you’re ready for a deeper dive, delve into the UEFI’s Advanced mode and take complete control. Advanced mode enables full control over every aspect of the motherboard, and a built-in search function helps you quickly find the setting you need.

EZ MODE
Designed to simplify setup, EZ mode presents vital settings and stats on a single page. With guided wizards, drag-and-drop functionality, and one-click application of important settings, your rig will be up and running in no time.

AI SUITE 3
The dashboard-style control panel of AI Suite 3 lets you fine-tune your system with ease. Get the best balance between performance, cooling, stability, and efficiency via simple and intuitive interfaces.

TPU INSIGHT
The TurboV Processing Unit (TPU) is an intelligent onboard micro-controller that provides an array of system-tuning features, including the ability to fine-tune voltages, monitor system stats and adjust overclocking parameters.

DIGITAL POWER CONTROL
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

TURBO CORE APP
Modern processors feature per-core tuning, and the ASUS Turbo app makes use of this feature by letting you assign applications to specific processor cores, prioritizing computing power where it's needed most.

Sonic Studio III
Sonic Studio supports HRTF-based (head-related transfer function*) virtual surround for headsets, casting an immersive aural landscape that draws you deeper into the action. The intuitive Sonic Studio interface also offers a range of EQ options and one-click presets, allowing you to tailor acoustics to suit personal preferences or the characteristics of your headset.

SONIC STUDIO LINK
Easily apply Sonic Studio effects on all playback devices. Simply press the Sonic Studio Link button to enjoy the effect on any playback device.

SONIC STUDIO VIRTUAL MIXER
Combine audio output from selected apps with audio from the microphone input and stream the compiled mix.

APP-SPECIFIC PROFILES
Apply customized audio settings to different applications, so everything you do is perfectly tuned to the way you want to listen.

DTS Sound Unbound
ROG Strix X670E motherboards are pre-loaded with the DTS® Sound Unbound™ app that envelops you in audio as never before, conjuring whole new levels of immersion for extraordinary gaming and entertainment experiences. By leveraging Windows Sonic spatial technology, DTS Sound Unbound delivers audio in a virtual 3D space — putting you right in the middle of the soundscape, where you can sense the location of every gunshot, footstep, and other sounds.*

* DTS Sound Unbound requires in-game support. Check with game publishers for supported titles.?

STEREO SOUND
Discrete left and right audio channels enable headphone or two-speaker setups.

SURROUND SOUND
Audio is split and served over multiple speaker channels – e.g., 5.1 or 7.1 – to create an enveloping experience on a single, logical plane.

SPATIAL SOUND
A virtual 360-degree soundscape immerses you in a realistic sonic experience.

AIDA64
The ROG Strix X670E-I includes a sixty-day AIDA64 Extreme subscription, a tool that provides detailed information about hardware and software, as well as benchmarks to measure the performance of the entire system or individual components. AIDA64 Extreme includes a monitoring and diagnostics feature to detect and prevent hardware issues. All vital system sensors can be tracked in real time, allowing voltage readings, fan speeds, and temperature information to be displayed on the desktop or sent to dedicated displays or to the LCD panels of ROG AIO liquid coolers*.

*Support available for ROG Ryujin II and later models.

Armoury Crate
Armoury Crate is a software utility designed to give you centralized control of supported gaming products, making it easy to tune the look and feel of your system. From a single intuitive interface, Armoury Crate helps you customize RGB lighting and effects for compatible devices and synchronize them with Aura Sync to create a unified lighting scheme across your system. In addition, Armoury Crate’s Fan Xpert4 tool provides comprehensive control over fans, water pumps and all-in-one (AIO) coolers.

You can also use Armoury Crate to download drivers, software and user manuals, register products, and tap into a special news feed that connects you to the global ASUS gaming community.

*Windows 10 required for full Aura Sync functionality within Armoury Crate. For Windows 8 and earlier versions, standalone Aura Sync software is available for free download from the product support site.

THIS CHANGES EVERYTHING.
FROM THIS NEW PLATFORM, YOU CAN SEE THE FUTURE
Build your next rig with an AMD Ryzen™ 7000 Series processor and ROG Strix X670E-I Gaming WiFi to experience advanced performance. With up to 16 “Zen 4” cores and 32 threads, boost clocks of up to 5.7GHz, and 80MB cache, the AMD Ryzen™ 7000

Series keeps you ahead of the game.1

You'll also gain access to new features for gamers with AMD Socket AM5, from the speed of DDR5 memory to the increased bandwidth of PCIe® 5.0. AMD Ryzen™ 7000 Series processors and AMD socket AM5 motherboards are unlocked for overclocking to personalize your experience. Gain even more performance when you overclock your DDR5 memory with AMD EXPO™ technology.2

Zusammenfassung

The ROG Strix X670E-I Gaming WiFi crams the latest tech into the diminutive mini-ITX footprint and then branches out with the ROG Hive to put vital controls and I/O at your fingertips. At motherboard level, PCIe 5.0 slots for graphics and storage ride alongside dual-channel DDR5 to bring large-scale bandwidth to games and CPU-intensive workloads. Heavyweight power delivery and vertically-stacked heatsinks crush thermals and lay a potent foundation for exclusive ROG overclocking tools to push performance boundaries. With all this and more, this tiny titan dishes up a space-saving AM5 build that allows you to comfortably host larger displays and a spread of ROG gaming peripherals on your desktop.

ALL-ROUND PERFORMANCE
Robust power delivery, innovative overclocking tools, and comprehensive cooling controls make the ROG Strix X670E-I more than a match for larger rivals. Load up and freely customize your AMD Ryzen™ 7000 Series processor to shred through everything.

PCIE PERFORMANCE
The ROG Strix X670E-I neatly increases mini-ITX expansion capabilities with vertically-stacked PCIe 5.0 and PCIe 4.0 M.2 slots. PCIe 5.0 support also extends to the x16 slot, which is reinforced with SafeSlot, providing structural support and bandwidth to handle large and powerful next-gen GPUs.

AI OVERCLOCKING
Tuning is now faster and smarter than ever before. ASUS AI Overclocking profiles the CPU and cooling to predict the optimal configuration and push the system to its limits. Predicted values can be engaged automatically or used as a launching ground for further experimentation.

DYNAMIC OC SWITCHER
Lightly-threaded tasks get fantastic uplift using AMD Precision Boost Overdrive (PBO), but all-core frequencies can be pushed higher via traditional overclocking. The Dynamic OC Switcher dynamically engages PBO or your preferred settings based on the CPU current or temperature, giving you the best of both worlds. Core Flex and PBO Enhancement can also be deployed to work in tandem with the Dynamic OC Switcher and further bolster performance on both sides of the aisle.

CORE FLEX
Core Flex empowers you to smash limits farther than ever before by letting you control current, power, and thermals in creative new ways. In its simplest form, you can let your system run unrestricted during lighter loads and set breakpoints to gradually reduce power consumption as temperature increases. But the system is extremely adaptable, supporting multiple user-controlled functions that can manipulate parameters independently so that you can bend CPU performance to your will.

PBO ENHANCEMENT
AMD Precision Boost Overdrive (PBO) pushes the CPU current and voltage budget to opportunistically increase performance. By aggressively tuning the PBO parameters, AMD's algorithm can leverage the motherboard's robust power solution to ramp up performance even higher.

POWER ARCHITECTURE
10 + 2 power stages, strategically teamed to rapidly respond to load changes and drive Ryzen™ 7000 through any workload.

ALLOY CHOKES AND DURABLE CAPACITORS
Hi-end chokes and durable capacitors are engineered to resist extreme temperatures, enabling performance that exceeds industry standards.

8-PIN PROCOOL II POWER CONNECTOR
A ProCool II connector is precision-built to ensure flush contact with PSU power lines. A metal sheath improves heat dissipation and lowers electrical impedance.

DIGI+ POWER CONTROL
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency, and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

TEN-LAYER PCB
A multi-layered printed circuit board design quickly dissipates heat around the voltage regulators to improve overall system stability and

provide the CPU with more overclocking headroom.

DDR5 STRENGTH
For those who want to fly past stock DDR5 speeds, the Strix X670E-I is primed and ready for enthusiast-grade kits courtesy of vast AMD EXtended Profiles for Overclocking (EXPO) support. Seasoned veterans can further tweak performance via the extensive array of settings in the UEFI.

AEMP
ASUS Enhanced Memory Profile (AEMP) is an exclusive firmware feature for PMIC-restricted memory modules. AEMP automatically detects the memory chips on your kit and then presents optimized frequency, timing and voltage profiles that you can effortlessly apply to unleash performance.

VRM
The VRM heatsink extends over the rear I/O to maximize surface area and includes active cooling to deftly handle power thermals of the latest AMD processors - while leaving clearance for large CPU coolers.

HIGH-CONDUCTIVITY THERMAL PADS
High-quality thermal pads are utilized between power stages and heatsinks, helping to improve heat transfer and reduce VRM operating temperatures.

M.2 AND CHIPSET HEATSINKS
To save space, both on-board M.2 slots and heatsinks are stacked together over the chipset. And to keep the thermals of installed high-performance drives in check, the entire array is cooled by an embedded fan.

CPU FAN HEADERS
A dedicated PWM/DC fan header provides easy access to CPU coolers.

AIO PUMP FAN HEADER
A dedicated PWM/DC header connects self-contained water-cooling setups.

4-PIN PWM/DC FAN HEADERs
Header supports auto-detection of PWM or DC fans.

LEADING CONNECTIVITIY
The ATX experience thoughtfully scaled into mini-ITX: build easier the ROG FPS-II card, and grace your desktop with the ROG Hive, dual USB4® ports, and support for the latest WiFi 6E standard.

ROG STRIX HIVE
The all-new ROG Strix Hive brings critical controls and I/O within arm's reach, moving them from the cramped quarters of an SFF chassis to a compact peripheral that sits on the desktop. DIY-friendly buttons and diagnostic LEDs are brought front and center along with a large volume dial. On the sides, a varied group of I/O ports handle audio input and output and provide convenient connectivity for grab-and-go peripherals.

ROG FPS-II Card
The ROG FPS-II card groups I/O onto a vertically-mounted card, saving valuable on-board space and tidying cable management. Connections can be made before the card is installed, greatly simplifying installation in cramped quarters. On board are two SATA ports, front panel headers, two USB 2.0 headers (allows for three USB 2.0 connections), a CPU_OV jumper for extreme overclocking, an Alteration mode switch, and a Clear CMOS header to reset BIOS to factory default.

DUAL USB4® PORTS
Each USB4® port delivers up to 40 Gbps of bidirectional bandwidth for the latest super-speed devices and drives. External display support reaches up to 8K output if one of the ports is in use, or both can be employed for dual 4K displays.*
*VGA resolution support depends on CPU or graphic card capabilities.

WIFI 6E
Onboard WiFi 6E technology takes advantage of newly available spectrum in the 6 GHz band to provide up to seven 160 MHz channels for ultrafast throughput and better performance in dense wireless environments.
*WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.

Intel 2.5G Ethernet
Onboard Intel® 2.5 Gbps Ethernet gives your wired connection a boost, with speeds that are 2.5 times faster than standard Ethernet connections for speedy file transfers, low-latency gaming, and high-res video streaming.

PLAY IN STYLE
The dark ROG Strix colorway pairs perfectly with other products from the diverse ROG ecosystem, allowing you to create a fully customized gaming setup that reflects your personal style.

UNDENIABLY ROG STRIX
A perforated metal mesh design on the I/O shield and M.2 heatsink can catch the light of internal RGB accessories or elegantly fade into the darkness of stealthy builds. Cypertext and angular accents make this board an unmistakable member of the ROG Strix series.

COOLER COMPATIBILITY
The ROG Strix X670E-I bears the same mounting hole alignment as AM4 platforms, so it is backward compatible with many existing coolers, including all AIO offerings from ASUS and ROG.

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.

SOFTWARE UTILITIES
ROG-exclusive software delivers intuitive audio tuning and gaming enhancements so you can configure your gaming build the way you want.

AI COOLING II
Balance the thermals and acoustics of any build with a single click. A proprietary ASUS algorithm slashes unnecessary noise while running a quick stress test, and then monitors CPU temperatures to dynamically adjust fans to optimal speeds.

TWO-WAY AI NOISE CANCELATION
This utility leverages a massive deep-learning database to reduce over 5 million types of background noise from incoming or outgoing audio, helping ensure crystal-clear communication in games or calls.

AI NETWORKING
GameFirst VI optimizes networking performance by allocating bandwidth in real time based on application usage scenarios and corresponding learning algorithms.

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.

ADVANCED MODE
When you’re ready for a deeper dive, delve into the UEFI’s Advanced mode and take complete control. Advanced mode enables full control over every aspect of the motherboard, and a built-in search function helps you quickly find the setting you need.

EZ MODE
Designed to simplify setup, EZ mode presents vital settings and stats on a single page. With guided wizards, drag-and-drop functionality, and one-click application of important settings, your rig will be up and running in no time.

AI SUITE 3
The dashboard-style control panel of AI Suite 3 lets you fine-tune your system with ease. Get the best balance between performance, cooling, stability, and efficiency via simple and intuitive interfaces.

TPU INSIGHT
The TurboV Processing Unit (TPU) is an intelligent onboard micro-controller that provides an array of system-tuning features, including the ability to fine-tune voltages, monitor system stats and adjust overclocking parameters.

DIGITAL POWER CONTROL
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

TURBO CORE APP
Modern processors feature per-core tuning, and the ASUS Turbo app makes use of this feature by letting you assign applications to specific processor cores, prioritizing computing power where it's needed most.

Sonic Studio III
Sonic Studio supports HRTF-based (head-related transfer function*) virtual surround for headsets, casting an immersive aural landscape that draws you deeper into the action. The intuitive Sonic Studio interface also offers a range of EQ options and one-click presets, allowing you to tailor acoustics to suit personal preferences or the characteristics of your headset.

SONIC STUDIO LINK
Easily apply Sonic Studio effects on all playback devices. Simply press the Sonic Studio Link button to enjoy the effect on any playback device.

SONIC STUDIO VIRTUAL MIXER
Combine audio output from selected apps with audio from the microphone input and stream the compiled mix.

APP-SPECIFIC PROFILES
Apply customized audio settings to different applications, so everything you do is perfectly tuned to the way you want to listen.

DTS Sound Unbound
ROG Strix X670E motherboards are pre-loaded with the DTS® Sound Unbound™ app that envelops you in audio as never before, conjuring whole new levels of immersion for extraordinary gaming and entertainment experiences. By leveraging Windows Sonic spatial technology, DTS Sound Unbound delivers audio in a virtual 3D space — putting you right in the middle of the soundscape, where you can sense the location of every gunshot, footstep, and other sounds.*

* DTS Sound Unbound requires in-game support. Check with game publishers for supported titles.?

STEREO SOUND
Discrete left and right audio channels enable headphone or two-speaker setups.

SURROUND SOUND
Audio is split and served over multiple speaker channels – e.g., 5.1 or 7.1 – to create an enveloping experience on a single, logical plane.

SPATIAL SOUND
A virtual 360-degree soundscape immerses you in a realistic sonic experience.

AIDA64
The ROG Strix X670E-I includes a sixty-day AIDA64 Extreme subscription, a tool that provides detailed information about hardware and software, as well as benchmarks to measure the performance of the entire system or individual components. AIDA64 Extreme includes a monitoring and diagnostics feature to detect and prevent hardware issues. All vital system sensors can be tracked in real time, allowing voltage readings, fan speeds, and temperature information to be displayed on the desktop or sent to dedicated displays or to the LCD panels of ROG AIO liquid coolers*.

*Support available for ROG Ryujin II and later models.

Armoury Crate
Armoury Crate is a software utility designed to give you centralized control of supported gaming products, making it easy to tune the look and feel of your system. From a single intuitive interface, Armoury Crate helps you customize RGB lighting and effects for compatible devices and synchronize them with Aura Sync to create a unified lighting scheme across your system. In addition, Armoury Crate's Fan Xpert4 tool provides comprehensive control over fans, water pumps and all-in-one (AIO) coolers.

You can also use Armoury Crate to download drivers, software and user manuals, register products, and tap into a special news feed that connects you to the global ASUS gaming community.

*Windows 10 required for full Aura Sync functionality within Armoury Crate. For Windows 8 and earlier versions, standalone Aura Sync software is available for free download from the product support site.

THIS CHANGES EVERYTHING.
FROM THIS NEW PLATFORM, YOU CAN SEE THE FUTURE
Build your next rig with an AMD Ryzen™ 7000 Series processor and ROG Strix X670E-I Gaming WiFi to experience advanced performance. With up to 16 "Zen 4" cores and 32 threads, boost clocks of up to 5.7GHz, and 80MB cache, the AMD Ryzen™ 7000 Series keeps you ahead of the game.1

You'll also gain access to new features for gamers with AMD Socket AM5, from the speed of DDR5 memory to the increased bandwidth of PCIe® 5.0. AMD Ryzen™ 7000 Series processors and AMD socket AM5 motherboards are unlocked for overclocking to personalize your experience. Gain even more performance when you overclock your DDR5 memory with AMD EXPO™ technology.2

ASUS ROG STRIX X670E-I GAMING WIFI, AMD, Socket AM5, DDR5-SDRAM, 64 GB, DIMM, Dual-channel

ASUS ROG STRIX X670E-I GAMING WIFI. Processor manufacturer: AMD, Processor socket: Socket AM5. Supported memory types: DDR5-SDRAM, Maximum internal memory: 64 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD. Maximum resolution: 3840 x 2160 pixels. Ethernet interface type: 2.5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet, LAN controller: Intel I225-V, Top Wi-Fi standard: Wi-Fi 6E (802.11ax)

Merkmale

Graphics

Maximum resolution	3840 x 2160 pixels

Other features

Weight	870 g

BIOS

BIOS type	UEFI AMI
BIOS memory size	256 Mbit

Expansion slots

PCI Express x16 (Gen 5.x) slots	1
Number of M.2 (M) slots	2

Processor

Processor manufacturer	AMD
Processor socket	Socket AM5

Weight & dimensions

Width	170 mm
Depth	170 mm

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	M.2, SATA III
Number of storage drives supported	4

Packaging data

Package width	285 mm
Package depth	110 mm
Package height	220 mm
Package weight	1.74 kg

Rear panel I/O ports

USB 2.0 ports quantity	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	5
USB4 Gen 3x2 ports quantity	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity	1

Features

Motherboard chipset	AMD X670
Audio chip	Realtek ALC4050H
Component for	PC
Motherboard form factor	mini ITX
Motherboard chipset family	AMD
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Network

Ethernet LAN	Y
Ethernet interface type	2.5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
LAN controller	Intel I225-V
Wi-Fi	Y
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
Bluetooth	Y
Bluetooth version	5.2

Internal I/O

USB 2.0 connectors	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors	1
USB 3.2 Gen 2 (3.1 Gen 2) connectors	1
Number of SATA III connectors	2
Front panel audio connector	Y
ATX Power connector (24-pin)	Y
CPU fan connector	Y
Number of chassis fan connectors	1
EPS power connector (8-pin)	Y

Memory

Supported memory types	DDR5-SDRAM

Number of memory slots	2
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	Y
Non-ECC	Y
Supported memory clock speeds	4800,5000,5200,5400,5600,5800 ,6000,6200,6400 MHz
Maximum internal memory	64 GB
Unbuffered memory	Y