

Asrock Phantom Gaming Z890I Nova WiFi



Artikel
Herstellernummer
EAN
Asrock

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90-MXBPN0-A0UAYZ
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FAST MYSTERIOUS UNBEATABLE

Phantom Gaming is designed by gamers and for gamers! Underneath its relentless appearance lie plentiful gaming oriented features and excellent gaming capabilities. It's all about bringing a new gaming experience to gamers!

Performance

Optimized VRM Design

20K Capacitor

Exclusive 20K Cap with 1000uF Capacitance

The upgraded 20K Black capacitor not only extends the lifespan to 20,000 hours but also increases the capacitance value from 560uF to 1000uF, bringing several benefits:

- Higher Capacitance: Greater charge storage for better support under high loads.
- Lower Ripple: Reduced power output fluctuations, improving quality.
- More Stable Output Current: Stable power supply, minimizing voltage impacts.
- Better Performance & System Stability: Increased reliability and consistent performance.

VRM Design

12+1+1+1+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capabilities and enhanced performance with the lowest temperature for advanced gamers as well.

SPS (Smart Power Stage)

Dr.MOS design features the latest SPS (Smart Power Stage) technology. It's optimized for monitoring current and temperature of each phase, thus delivering smoother and neater power to the CPU with enhanced performance and OC capability.

Power Connector

Hi-Density Power Connector

CPU overclocking requires higher current. ASRock Hi-Density Power Connectors are designed to withstand higher currents compared to traditional CPU and ATX power connectors, providing a more stable system and reducing the risk of fire during heavy overclocking.

PREMIUM PCB SOLUTION

2oz Copper PCB

2 ounce copper inner layers that provide stable signal traces and power shapes! Delivering lower temperature and higher energy efficiency for overclocking.

10 Layer PCB

The 10 Layer PCB provides stable signal traces and power shapes delivering lower temperature and higher energy efficiency,

ensures a reliable and long-lasting system while delivering ultimate performance without any compromise.

High Speed M.2 Solution

PCIe Gen5 Blazing M.2

The Blazing M.2 accommodates the latest PCI Express 5.0 standard to perform twice the bandwidth compared to previous generation, with a breathtaking 128Gb/s transfer speed, it is ready to unleash the full potential of future ultrafast SSDs.

Hyper M.2 Gen4 x4

Supports PCI Express 4.0 M.2 SSDs, it is capable of perform twice the speed compared to previous 3rd generation, giving a lightning fast data transferring experience.

Extreme Memory Overclocking

DDR5 XMP & EXPO Support

Derived from the “built for stable and reliable” designing concept, ASRock does not compromise on any details. This motherboard is built with high quality materials, enthusiasts are able to enjoy the boost of DDR5 memory overclocking performance by enabling the pre-tested profiles. Make sure the memory modules are Intel® XMP/AMD EXPO™ capable and overclocking can be made so affordable, satisfying and absolutely no sweat at all.

Memory OC Shield

ASRock's exclusive Memory OC Shield is a patented feature engineered to reduce electromagnetic interference (EMI) that could affect memory overclocking. By shielding memory modules from EMI noise and optimizing the layout, the Memory OC Shield enhances stability and reliability during high-frequency operations, enabling users to push their systems to the maximum potential.

Enlarged M.2 Heatsink

XXL M.2 Heatsink

The extra large aluminum alloy M.2 heatsink effectively improves heat dissipation to keep those high speed M.2 SSDs as cool as possible, it is able to give better stability while maintaining top performance.

Anti-Drop Screw

Tired of dropping screws or screws missing inside chassis?

The enhanced M.2 heatsink with anti-drop screw design that make sure installation process more easily.

Cooling

Intelligent Cooling Design

PWM/DC Fan Support

ASRock fan headers automatically detect whether fans are running in DC or PWM mode, allowing users to fine-tune the fan curve and achieve quieter operation.

Thermistor Header

The thermistor cable and thermistor header provide an additional source for temperature monitoring, offering customized thermal management solutions based on workload. Thermal management settings can be easily configured via Fan-Tastic Tuning or UEFI.

Fan-Tastic Tuning

ASRock Phantom Gaming Tuning Fan-Tastic Tuning function enables users to auto-detect the minimum duty of each fan with a single click. Users can also easily adjust the fan curve via the visualized UI interface, meeting their system's cooling performance and noise reduction requirements.

Composite VRM Heatsink

It is equipped with a composite VRM heatsink combining a cooling fan, bigger aluminum sink and heat pipe for maximum heat dissipation.

Connectivity

Wi-Fi 7

Enhanced VR Experience

Wi-Fi 7 offers higher data throughput, lower latency, and Multi-link Operation. These features ensure a smooth and real-time interactive experience, making the VR/AR experience more immersive and connected.

Wi-Fi 7 802.11be

Latest Wi-Fi 7 technology delivers extreme wireless internet speeds and low latency, with higher throughput and Multi-RU as well as puncturing technology. The new Wi-Fi 7(802.11be) technology is able to accelerate cloud-based gaming, 8K video streaming, and video conferencing.

Multi-link Operation(MLO)

Multi-link Operation (MLO) enables the simultaneous use of multiple bands and channels, boosting speed and throughput while reducing latency for a smoother, faster internet experience.

New Wi-Fi Antenna Design

The new Wi-Fi antenna design is ideal for high-bandwidth, low-latency applications and ensures a stable connection.

Thunderbolt™ 4 Type-C

Thunderbolt™ 4 technology brings speed and versatility to the most advanced USB Type-C, offering a fast and simple level of connection for work or home. It enables lightning-fast data transfer up to 40Gbps and connects external monitors, Thunderbolt™, and USB devices with a single Thunderbolt 4 cable.

Optimized 5 Gb/s LAN

ASRock's 5Gb/s LAN Connector features an exclusive, patent-pending design, boasting superior electromagnetic interference resistance, ensuring high-speed stable performance and providing users with a better networking experience.

Front Panel USB 3.2 Gen2x2 Type-C Header

The latest USB 3.2 Gen2x2 Type-C delivers up to 20 Gbps data transfer rate which is 2x as fast as previous generation, providing a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.

Nahimic Audio

Audio That Matters

Whether you are using headphones, a headset, external or internal speakers, via USB, Wi-Fi, analog output or even HDMI, Nahimic Audio offers you the most engaging listening experience, vibrant and rich with details.

Enhance Communication Quality

The Powerful algorithms to ensure the best noise-free conversation, giving a constant vocal level no matter the distance from your mic. The Nahimic audio engine dynamically clear the sound and remove interference noise and lower the voice variation. Result is a better comprehension and less fatigue.

- Static Noise Suppression
- Echo Cancellation
- Lateral Sound Cancellation
- Voice Stabilizer

Ultimate Gaming Experience

- Sound Tracker

The Sound Tracker is a visual indicator that points out the directions from which predominant sounds are coming. Each sound is properly positioned in 360° on a radar for a full immersion during the game.

- Works on any devices!

Enjoy the vibrant and high-quality Surround Sound on all your favorite audio devices. Nahimic is compatible with all of your favorite audio tools and ensures the best sound with any of them. Nahimic measure and improve to optimize our technology and offer you the best experience.

Stylish Design

POLYCHROME RGB

This motherboard features onboard RGB headers and addressable RGB headers that allow motherboard to be connected to compatible LED devices such as strip, CPU fans, coolers, chassis and so on. Users may also synchronize RGB LED devices across the Polychrome RGB Sync-certified accessories to create their own unique lighting effects.

SignalRGB

SignalRGB unifies your RGB devices, offering seamless customization, game-reactive effects, macro automation, and system monitoring. The official partnership empowers ASRock motherboards with advanced lighting control, enhances compatibility with a diverse range of RGB devices, and provides greater customization flexibility.

DIY Friendly

Deluxe Accessories

ARGB Splitter Cable

The ARGB Splitter Cable enables easy management of multiple ARGB devices through a single controller. With its splitting capability, it streamlines your lighting setup for a unified and dynamic aesthetic.

Customized Thermal Management

The thermistor cable and thermistor header provide an additional source for temperature monitoring, offering customized thermal management solutions.

EZ Setting

Auto Driver Installer

No need to worry about lack of disk drive! ASRock preinstall LAN driver to ensure that you are able to install all drivers needed in an easier way than using SCD.

BIOS Flashback

Get the most convenient BIOS flashing with just a simple click. Users can easily achieve the latest BIOS support with a USB and a power supply. No CPU, RAM or other components are required.

Flexible Integrated I/O Shield

Unlike most so called pre-mounted I/O shield that is only decorated with fancy color schemes. We reserve more tolerance space and allow IO shield is adjustable when installing, thus fitting chassis perfectly without any mechanical issue.

Zusammenfassung

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Asrock Phantom Gaming Z890I Nova WiFi, Intel, LGA 1851 (Socket V1), Intel Core Ultra (Series 2), LGA 1851, DDR5-SDRAM, 128 GB

Asrock Phantom Gaming Z890I Nova WiFi. Processor manufacturer: Intel, Processor socket: LGA 1851 (Socket V1), Compatible processor series: Intel Core Ultra (Series 2). Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: PCI Express 4.0, PCI Express 5.0, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Maximum resolution: 7680 x 4320 pixels. USB connector type: USB Type-A, USB Type-C

Merkmale

BIOS

BIOS type	UEFI AMI
BIOS memory size	256 Mbit

Weight & dimensions

Width	170 mm
Depth	170 mm

Graphics

Parallel processing technology support	Not supported
Maximum resolution	7680 x 4320 pixels
HDCP	Yes

Packaging content

Cables included	SATA
Antenna included	Yes
Screws included	Yes

Processor

Processor manufacturer	Intel
Processor socket	LGA 1851 (Socket V1)
Compatible processor series	Intel Core Ultra (Series 2)
Supported processor sockets	LGA 1851

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	PCI Express 4.0, PCI Express 5.0, SATA III
Number of storage drives supported	5
RAID support	Yes
RAID levels	0, 1, 5, 10

Memory

Supported memory types	DDR5-SDRAM
Number of memory slots	2
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	Non-ECC
Maximum internal memory	128 GB
Unbuffered memory	Yes

Expansion slots

PCI Express x16 (Gen 5.x) slots	1
Number of M.2 (M) slots	3
1st M.2 largest key size	2280
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	2280
2nd M.2 highest PCI Express generation	4.0
3rd M.2 largest key size	2280
3rd M.2 highest PCI Express generation	4.0

Network

Ethernet LAN	Yes
Ethernet interface type	5 Gigabit Ethernet
LAN controller	Realtek RTL8126
Wi-Fi	Yes
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
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), Wi-Fi 7 (802.11be)
Bluetooth	Yes
Bluetooth version	5.4

Features

Motherboard chipset	Intel Z890
Audio chip	Realtek ALC4082
Audio output channels	7.1 channels
Product colour	Black
Component for	PC
Motherboard form factor	mini ITX
Motherboard chipset family	Intel
Windows operating systems supported	Windows 11 x64
Certification	FCC, CE, ErP/EuP

Rear panel I/O ports

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	
Ethernet LAN (RJ-45) ports	1

HDMI ports quantity	1
HDMI version	2.1
Headphone outputs	1
Microphone in	Yes
S/PDIF out port	Yes
Thunderbolt ports quantity	2
WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

Internal I/O

USB 2.0 connectors	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors	1
USB 3.2 Gen 2x2 connectors	1
Number of SATA III connectors	2
Front panel audio connector	Yes
ATX Power connector (24-pin)	Yes
CPU fan connector	Yes
Number of CPU fan connectors	1
Number of chassis fan connectors	1
EPS power connector (8-pin)	Yes
Number of EPS power connectors (8-pin)	1
12V power connector	Yes
Number of water pump connectors	1

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.