# ASUS PRIME B650-PLUS


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|---|---|
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ASUS

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**FLEXIBILITY**
Comprehensive controls form the foundation of the ASUS PRIME series. The PRIME B650 motherboard packs flexible tools to tune every aspect of your system, enabling performance tweaks to perfectly match the way you work to maximize productivity.

Intelligent Control

**CPU Performance Boost**
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.

**All-Around Energy Efficiency**
The Power Saving function contains several settings can easily optimize power consumption and maximize energy savings. You can enable a CPU power limit, darken Aura lighting, and set the fan profile to a power saving mode. You can also toggle the Power Saver plan that is built into Microsoft Windows.

**Flexible Air- and Liquid-Cooling Controls**
ASUS Fan Xpert 2+ software provides comprehensive control over fans and all-in-one (AiO) coolers. Whether cooling with air or water, an Auto-Tuning mode intelligently configures all parameters with a single click. There’s also an Extreme Quiet mode that reduces chassis fan speeds to below the default minimum to keep your system whisper-quiet when performing light tasks. Fans, AiO coolers can also be controlled via the UEFI BIOS.

**Precise Digital Power Control**
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, automatically switching frequency and power-efficiency settings. It also allows you to fine-tune your CPU for ultimate stability and performance.

**UEFI BIOS**
The renowned ASUS UEFI BIOS provides everything you need to configure, tweak and tune your system. It offers intelligently simplified options for PC DIY beginners, as well as comprehensive features for seasoned veterans.

**Advanced Tuning for Serious Tweakers**
An intuitive Advanced mode offered via the UEFI lets you take complete control. A built-in search feature makes it easy to find options, and various advanced functions let you intelligently make nuanced adjustments so you can dial in performance just the way you want.

**Quick and Simple Setup**
EZ mode displays vital settings and stats and also offers guided wizards, drag-and-drop functionality, and one-click application of important settings — all to help you get your rig up and running in no time.

**Intuitive Graphical Fan Control**
Fine-tune individual fan settings simply by dragging a curve with the mouse.

**Aura On/Off Mode (Stealth)**
Easily enable or disable Aura RGB lighting or every onboard LED, for a subdued aesthetic touch.

**COOLING**
Prime B650 series are engineered with multiple onboard heatsinks and an array of hybrid fan headers to ensure your rig stays cool and stable under intense workloads.

Heatsinks

**M.2 Heatsink**
An M.2 heatsink takes care of the two M.2 slots, warding off throttling that can occur with M.2 storage during sustained transfers. The heatsink is held in place by captive screws.

**VRM Heatsinks and Thermal Pads**
VRM heatsinks and thermal pads improve heat transfer from the MOSFETs and chokes for better cooling performance.

**Cooler by Design**
Prime B650 series feature comprehensive cooling controls that are configurable via Fan Xpert 2+ software or via the UEFI BIOS.

**Multiple Temperature Sources**
Each header can dynamically reference three thermal sensors. Fan Xpert 2+ allows you to map the temperature of supported ASUS graphics cards to optimize cooling for GPU- and CPU-intensive tasks.

**AIO Pump Header**
A dedicated PWM/DC header for self-contained water-cooling setups.

**Smart Protection**
A dedicated integrated circuit protects each fan header from overheating and overcurrent.

**4-Pin PWM/DC Fan**
Each onboard header supports auto-detection of PWM or DC fans.

**PERFORMANCE**
The PRIME B650 series is built to handle the high core counts and bandwidth demands of AMD processors. ASUS B650 motherboard provides all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible data transfer options.

**Robust Power Design**
Stable power is essential to extract every last bit of performance out of AMD processors. The PRIME B650-PLUS is geared to cater to the demands of these high-core-count CPUs.

**ProCool Connectors**
Proprietary connectors augment the motherboard's link to the PSU with 8 pin connectors that pass 12 volts of power directly to the processors. Each jack features solid pins that can handle more current than hollow-pin connectors.

**Six-Layer PCB Design**
Multiple PCB layers optimize heat management for critical components, providing more headroom to push CPUs beyond stock speeds.

Memory

**DDR5 Performance Enhancement**
Comprehensive memory tuning options are the cornerstone of PRIME motherboards. With the PRIME B650-PLUS, you can extract all of the potential out of your DDR5 modules, whether they're from an extreme-speed kit or an entry-level set that would otherwise be locked.

For entry-level modules without EXPO™ memory support, we’ve got you covered. Click here to learn more about AEMP. arrow.

For those who want to fly past stock DDR5 speeds, the PRIME B650-PLUS 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.

**ASUS OptiMem II**
Revisions to the motherboard's trace routing provide the latest processors with unrestricted access to memory bandwidth. ASUS OptiMem II technology carefully maps memory signal pathways across different PCB layers to reduce vias and adds shielding zones that significantly reduce crosstalk.

**Benefits of ASUS OptiMem II:**
Improved memory stability and compatibility
Allows lower memory latencies at equivalent voltages
Improved memory frequency margin
Motherboards with OptiMem II technology were tested with Synopsys HSPICE simulation software

Storage
**PCIe 5.0 M.2 Support**
PRIME B650-PLUS offers a total of two M.2 slots, the first one supports data-transfer speeds of up to 128Gbps via PCIe 5.0, enabling quicker boot-up and app load times with OS or application drives.
*Actual transmission speeds will be lower than the theoretical maximum speed.

Connectivity

**PCIe 4.0 Slot**
Prime B650 motherboards offer PCIe 4.0 Slot connectivity for the latest GPUs. The wide bandwidth and superfast transmission speeds allow you to create feature-rich builds that can handle high loads effortlessly.

**USB 3.2 Gen 2 Type-C®**
A batch of USB ports support high-end rigs loaded with peripherals, including a rear USB Type-C® connector with ultrafast USB 3.2 Gen 2 for transmission speeds of up to 10Gbps.

**Front USB Type-C®**
A full complement of USB ports support high-end rigs loaded with peripherals, including a front-panel USB 3.2 Gen 1 Type-C® connector that provides data transfer speeds of up to 5Gbps.

**USB4® Support**
PRIME B650-PLUS motherboard features USB4® support via a Thunderbolt™ (USB4®) header. With an ASUS add-on card*, PRIME motherboards can enable bi-directional speeds of up to 40 Gbps on a single cable, while providing power to fast-charge device. Additionally, this card has a daisy-chain function for multi-screen connection and supports up to dual displays with 4K resolution.
*ASUS add-on card is sold separately.

**Realtek 2.5 Gb Ethernet**
Realtek 2.5 Gb Ethernet reduces CPU overhead and offers exceptionally high TCP and UDP throughput for faster, smoother data transfers.

**LANGuard**
ASUS LANGuard is a hardware-level network protection feature that integrates advanced signal-coupling technology and premium anti-EMI surface-mounted capacitors to improve throughput and ensure a more reliable connection.
**Audio Shielding**

Audio shielding ensures precision analog/digital separation and greatly reduced multi-lateral interference.

**Dedicated Audio PCB Layers**
Separate layers for left and right tracks ensures both channels deliver consistent, equal quality.

**Premium Audio Capacitors**
Provides warm, natural, and immersive sound with exceptional clarity and fidelity.

Aura Sync
**Outshine the Competition**
A well-tuned enthusiast system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips and devices connected to the onboard RGB headers — and it can all be synced with an ever-growing portfolio of Aura-capable hardware.

**Addressable Gen 2 Headers**
Three addressable Gen 2 headers are capable of detecting the number of LEDs on second-gen addressable RGB devices, allowing the software to automatically tailor lighting effects to specific devices. The new headers also offer backward-compatibility with existing

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**Armoury Crate**
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**Q-LED Core**
The Q-LED Core display produces light patterns by power LED during the Power-On Self-Test (POST) that can help users troubleshoot potential issues.

**BIOS FlashBack™**
BIOS FlashBack™ is the simplest and safest (UEFI) BIOS update method. Simply drop the (UEFI) BIOS file onto a FAT32 formatted USB stick, plug it into the USB BIOS FlashBack™ port and press the button. Updates can even be performed without a memory or a CPU installed.

**SafeSlot Core+**
SafeSlot Core+ is the ASUS-exclusive PCIe slot fortified with a one-piece stainless-steel brace that shields the slot to protect it from damage. The metal cover is tightly secured to the slot with hooks, and the entire assembly is firmly anchored to the PCB with strengthened solder points to provide a secure foundation for heavyweight graphics cards.

Overvoltage Protection
**World-class circuit-protecting power design**
An exclusive circuit design with built-in voltage regulators to protect your motherboard from damage caused by unexpected high-level voltages from unstable or inferior power supplies.

Stainless-Steel Back I/O
**3X corrosion-resistance for greater durability**
Corrosion-resistant stainless-steel back I/O panels bonded with chromium oxide have a lifespan that's three times longer than ordinary panels.

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Build your next rig with an AMD Ryzen™ 7000 Series processor and PRIME B650-PLUS 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

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ASUS PRIME B650-PLUS, AMD, Socket AM5, AMD Ryzen™ 3, AMD Ryzen™ 7, AMD Ryzen 9 7th Gen, Socket AM5, DDR5-SDRAM, 128 GB

ASUS PRIME B650-PLUS. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen™ 3, AMD Ryzen™ 7, AMD Ryzen 9 7th Gen. Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet. Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: AMD

# Merkmale

## Graphics

| | |
|---|---|
| Parallel processing technology support | Not supported |

## BIOS

| | |
|---|---|
| BIOS type | UEFI AMI |
| BIOS memory size | 256 Mbit |

## Other features

| | |
|---|---|
| Back-to-BIOS button | Y |
| Number of M.2 (E) slots | 1 |

## Packaging content

| | |
|---|---|
| Cables included | SATA |
| User guide | Y |

## Weight & dimensions

| | |
|---|---|
| Width | 305 mm |
| Depth | 244 mm |

## Expansion slots

| | |
|---|---|
| PCI Express x4 (Gen 1.x) slots | 2 |
| PCI Express x16 (Gen 4.x) slots | 2 |
| Number of M.2 (M) slots | 2 |

## Network

| | |
|---|---|
| Ethernet LAN | Y |
| Ethernet interface type | 2.5 Gigabit Ethernet |
| Wi-Fi | N |

## Packaging data

| | |
|---|---|
| Package width | 338 mm |
| Package depth | 373 mm |
| Package height | 68 mm |
| Package weight | 1.35 kg |

## Processor

| | |
|---|---|
| Processor manufacturer | AMD |
| Processor socket | Socket AM5 |
| Compatible processor series | AMD Ryzen™ 3, AMD Ryzen™ 7, AMD Ryzen 9 7th Gen |
| Supported processor sockets | Socket AM5 |

## Storage controllers

| | |
|---|---|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces | M.2, SATA III |
| RAID support | Y |
| RAID levels | 0, 1, 10 |

## Features

| | |
|---|---|
| Motherboard chipset | AMD B650 |
| Audio output channels | 7.1 channels |
| Component for | PC |
| Motherboard form factor | ATX |
| Motherboard chipset family | AMD |
| Power source type | ATX |
| Windows operating systems supported | Windows 10, Windows 11 x64 |

## Memory

| | |
|---|---|
| Supported memory types | DDR5-SDRAM |
| Number of memory slots | 4 |
| 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 |
| Supported memory clock speed (max) | 6400 MHz |
| Maximum internal memory | 128 GB |
| Unbuffered memory | Y |

## Internal I/O

| | |
|---|---|
| USB 2.0 connectors | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors | 2 |
| Number of SATA III connectors | 4 |

| | |
|---|---|
| Front panel audio connector | Y |
| ATX Power connector (24-pin) | Y |
| CPU fan connector | Y |
| Number of chassis fan connectors | 3 |
| EPS power connector (8-pin) | Y |
| Number of COM connectors | 1 |
| TPM connector | Y |
| Thunderbolt headers | 1 |
| 12V power connector | Y |
| RGB LED pin header | Y |

## Rear panel I/O ports

| | |
|---|---|
| USB 2.0 ports quantity | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 2 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 3 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| Ethernet LAN (RJ-45) ports | 1 |
| HDMI ports quantity | 1 |
| HDMI version | 2.1 |
| DisplayPorts quantity | 1 |
| DisplayPort version | 1.4 |
| Headphone outputs | 1 |
| Line-in | Y |
| Microphone in | Y |
| S/PDIF out port | Y |