ComX Computers
Product Specification Sheet

B550M-PRO4

Asrock B550M-PRO4 AMD B550 Chipset AMD Ryzen AM4 Socket Micro ATX Motherboard

Product Overview

ASRock AMD B550M-PRO4, B550 Chipset, Socket AM4, AMD Ryzen Series Support. Supports Ryzen 3000, 3000 G-Series, 4000 G-Series, 5000 and 5000 G-Series Desktop Processors Memory Support: DDR4 Up to 4733+(OC)MHz, 4x DIMM Dual Channel Slots (128GB Max), Storage & I/O: 6x SATA3 6.0 Gb/s, 1x Hyper M.2 (PCIe Gen4 x4), 1x M.2 (PCIe Gen3 x2 & SATA3), 2x USB 3.2 Gen2 (Rear Type A+C), 8x USB 3.2 Gen1 (4 Front, 4 Rear), Expansion: 1x PCIe 4.0 x16, 1x PCIe 3.0 x16, 1x PCIe 3.0 x1, 1x M.2 Key E for WiFi, Display, Audio & LAN: HDMI, DisplayPort, D-Sub, AMD CrossFireX, 7.1 CH HD Audio (Realtek ALC1200 Audio Codec), Nahimic Audio, Realtek Gigabit LAN, Graphics: Integrated AMD Radeon Vega Series And R-Series, DirectX 12, Pixel Shader 5.0, Supports Triple Monitor, HDMI Max (4096x2160)@60Hz, DisplayPort Max (5120x2880)@120Hz, D-Sub Max (1920x1200)@60Hz, Features: ASRock Motherboard Utility (A-Tuning), ASRock XFast LAN, ASRock Super Alloy, Premium 50A Power Choke, Sapphire Black PCB, ASRock USB 3.2 Gen2



Specifications

Features:

Nahimic Audio
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.

8 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.

Premium 50A Power Choke
Compared to traditional chokes, ASRock's premium 50A power chokes effectively make the saturation current up to three times better, thus providing enhanced and improved Vcore voltage to the motherboard.

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, it's able to support the latest DDR4 memory modules with most extreme memory performance!

RULE YOUR OWN LIGHTING WAY - POLYCHROME RGB
This motherboard features onboard RGB headers and an addressable RGB header 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.

Dual M.2 For SSD, Supports Type 22110 M.2
Ready for higher capacity and even faster Type 22110 M.2 NVMe SSD to fulfill the need of performance. Hyper M.2 socket that supports PCIe Gen4 x4 while M.2 socket is capable of running PCIe Gen3 x2 and SATA3 mode.

M.2 Armors
Good M.2 SSD protection is important for longevity and stability. ASRock provides a completed M.2 armor solution that makes SSDs to run in a certain low temperature.

AMD SMART ACCESS MEMORY
Conventional PC systems processor can only access a fraction of graphics memory and limits system performance. With AMD Smart Access Memory, the data channel gets expanded to harness the full potential of GPU memory, removes the bottleneck and increase performance.

Reinforced Steel Slot [PCIe 4.0 Version]
The reinforced steel slot is capable of supporting PCI Express 4.0 standard. The various benefits include:

- Extra anchor points
- Stronger latch
- Ensure signal stability
- Make sure heavy graphics cards to be well-installed.

Dual USB 3.2 Gen2 (Type-A + Type-C)
This motherboard has a pair of onboard Type-A and Type-C USB 3.2 Gen2 ports built on the rear i/o for supporting next generation USB 3.2 Gen2 devices and to deliver up to 10 Gbps data transfer rates.

M.2 (KEY E) For WiFi
Besides the onboard LAN port, users may also choose 802.11ac wireless connections by M.2 (Key E) slot.

Post Status Checker
An easy troubleshooting tool that shows the CPU / DRAM / VGA / BOOT operation every time you start up the system. Post Status Checker is an fast and easy way to identify the source of the problem.

AMD StoreMI Technology
A powerful tool that combines the speed of your SSD with the capacity of your hard disk into a single, fast, easy-to-manage drive, AMD StoreMI technology "combines" these two types of storage into a single drive and automatically moves the data you access the most to the SSD, so you get the best of both worlds.

XXL Aluminum Alloy Heatsink
Extra large aluminum alloy heat sinks that effectively take away heat from the MOSFET and chipset so that your whole system may perform more stable.

Sapphire Black PCB
Pure black PCB appearance. The new Sapphire Black PCB represents rock-solid quality and gives the motherboard a more mysterious touch.

High Density Glass Fabric PCB
High Density Glass Fabric PCB design that reduces the gaps between the PCB layers to protect the motherboard against electrical shorts caused by humidity.

2oz Copper PCB

Using only carefully selected copper materials for PCB layers, 2oz Copper PCB delivers lower temperature and higher energy efficiency for overclocking.

3 Graphics Outputs
Complete with all three types of most used connectors! Packed with a D-Sub + DisplayPort + HDMI combo. Plus the HDMI port supports 4K resolution.

Full Spike Protection
Some sensitive digital components on the motherboard are vulnerable to power surges, the excessive current may cause your system to malfunction immediately. ASRock Full Spike Protection includes various technologies to prevent your motherboard's components from being damaged by these unexpected voltage spikes.

Live Update & APP Shop
ASRock Live Update & APP Shop is designed for your convenience. We provide various apps and support software for users to download. You can also easily optimize your system and keep your motherboard up to date with ASRock Live Update & APP Shop.

Specifications:

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Specifications	
Product Code	B550M-PRO4
Unique Feature	ASRock USB 3.2 Gen2
	- ASRock USB 3.2 Gen2 Type-A Port (10 Gb/s)
	- ASRock USB 3.2 Gen2 Type-C Port (10 Gb/s)
	ASRock Super Alloy
	- XXL Aluminum Alloy Heatsink
	- Premium 50A Power Choke
	- Sapphire Black PCB
	- High Density Glass Fabric PCB
	- 2oz Copper PCB
	ASRock Steel Slot Gen4
	ASRock Full Coverage M.2 Heatsink
	ASRock Hyper M.2 (PCIe Gen4x4)
	ASRock POST Status Checker (PSC)
	ASRock Full Spike Protection (for all USB, Audio, LAN Ports)
	ASRock Live Update & APP Shop

CPU	- Supports AMD AM4 Socket Ryzen 3000, 3000 G-Series, 4000 G-Series, 5000 and 5000 G-Series Desktop Processors
	- Digi Power design
	- 8 Power Phase design
	*Not compatible with AMD Athlon Processors.
Chipset	- AMD B550
Memory	- Dual Channel DDR4 Memory Technology
	- 4 x DDR4 DIMM Slots
	- AMD Ryzen series CPUs (Vermeer) support DDR4 4533+(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series CPUs (Matisse) support DDR4 4533+(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Cezanne) support DDR4 4733+(OC) / 4666(OC) / 4600(OC) / 4533(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Renoir) support DDR4 4733+(OC) / 4666(OC) / 4600(OC) / 4533(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Picasso) support DDR4 3333+(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 non-ECC, un-buffered memory
	- Max. capacity of system memory: 128GB
	- Supports Extreme Memory Profile (XMP) memory modules
	- 15u Gold Contact in DIMM Slots
	*For Ryzen Series APUs (Picasso, Cezanne and Renoir), ECC is only supported with PRO CPUs.
	Please refer to below table for AMD non-XMP memory frequency support. For more details.
	SR: Single rank DIMM, 1Rx4 or 1Rx8 on DIMM module label x=1 or 2
	DR: Dual rank DIMM, 2Rx4 or 2Rx8 on DIMM module label
	**Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows 32-bit OS. For Windows 64-bit OS with 64-bit CPU, there is no such limitation.

BIOS	- 256Mb AMI UEFI Legal BIOS with GUI support
	- Supports "Plug and Play"
	- ACPI 5.1 compliance wake up events
	- Supports jumperfree
	- SMBIOS 2.3 support
	- CPU, CPU VDDCR_SOC, DRAM, VPPM, 1.05V_PROM_S5, 2.5V_PROM, +1.8VSB, VDDP Voltage Multi-adjustment
Graphics	- Integrated AMD Radeon Vega Series Graphics in Ryzen Series APU
	- DirectX 12, Pixel Shader 5.0
	- Shared memory default 2GB. Max Shared memory supports up to 16GB.
	- Three graphics output options: D-Sub, HDMI and DisplayPort 1.4
	- Supports Triple Monitor
	- Supports HDMI 2.1 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz
	- Supports DisplayPort 1.4 with max. resolution up to 5K (5120x2880)@120Hz
	- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz
	- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 2.1 Port (Compliant HDMI monitor is required)
	- Supports HDR (High Dynamic Range) with HDMI 2.1
	- Supports HDCP 2.3 with HDMI 2.1 and DisplayPort 1.4 Ports
	- Supports 4K Ultra HD (UHD) playback with HDMI 2.1 and DisplayPort 1.4 Ports
	- Supports Microsoft PlayReady
	*Actual support may vary by CPU
	**The Max shared memory 16GB requires 32GB system memory installed.
	*Picasso supports HDCP 2.2 with HDMI 2.0 Port
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC1200 Audio Codec)
	- Premium Blu-ray Audio support
	- Supports Surge Protection
	- PCB Isolate Shielding
	- Individual PCB Layers for R/L Audio Channel
	- Nahimic Audio
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
	- Realtek RTL8111H
	- Supports Wake-On-LAN
	- Supports Lightning/ESD Protection
	- Supports Energy Efficient Ethernet 802.3az
	- Supports PXE

Slots	AMD Ryzen series CPUs (Vermeer and Matisse)
	- 2 x PCI Express x16 Slots (PCIE1: Gen4x16 mode; PCIE3: Gen3 x4 mode)
	AMD Ryzen series APUs (Cezanne and Renoir)
	- 2 x PCI Express x16 Slots (PCIE1: Gen3x16 mode; PCIE3: Gen3 x4 mode)
	AMD Ryzen series APUs (Picasso)
	- 2 x PCI Express x16 Slots (PCIE1: Gen3x8 mode; PCIE3: Gen3 x4 mode)
	- 1 x PCI Express 3.0 x1 Slot
	- Supports AMD Quad CrossFireX and CrossFireX
	- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module
	*Supports NVMe SSD as boot disks
Storage	- 6 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug
	- 1 x Hyper M.2 Socket (M2_1), supports M Key type 2280 M.2 PCI Express module up to Gen4x4 (64 Gb/s) (with Vermeer, Matisse) or Gen3x4 (32 Gb/s) (with Cezanne, Renoir and Picasso)
	- 1 x M.2 Socket (M2_2), supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x2 (16 Gb/s)
	*M2_2 and SATA3_5_6 share lanes. If either one of them is in use, the other one will be disabled.
	**Supports NVMe SSD as boot disks

Connector	- 1 x COM Port Header
	- 1 x SPI TPM Header
	- 1 x Power LED and Speaker Header
	- 2 x RGB LED Headers
	- 2 x Addressable LED Headers
	- 1 x CPU Fan Connector (4-pin)
	- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)
	- 4 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)
	- 1 x 24 pin ATX Power Connector
	- 1 x 8 pin 12V Power Connector
	- 1 x Front Panel Audio Connector
	- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection)
	- 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports) (Supports ESD Protection)
	*Support in total up to 12V/3A, 36W LED Strip
	**Support in total up to 5V/3A, 15W LED Strip
	*The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.
	**The CPU/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.
	***The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.
	CPU_FAN2/WP, CHA_FAN1/WP, CHA_FAN2/WP, CHA_FAN3/WP and CHA_FAN4/WP can auto detect if 3-pin or 4-pin fan is in use.
Rear Panel I/O	- Antenna Bracket
	- 1 x PS/2 Mouse/Keyboard Port
	- 1 x D-Sub Port
	- 1 x HDMI Port
	- 1 x DisplayPort 1.4
	- 1 x USB 3.2 Gen2 Type-A Port (10 Gb/s) (Supports ESD Protection)
	- 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s) (Supports ESD Protection)
	- 4 x USB 3.2 Gen1 Ports (ASMedia ASM1074 hub) (Supports ESD Protection)
	- 2 x USB 2.0 Ports (Supports ESD Protection)
	- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
	- HD Audio Jacks: Line in / Front Speaker / Microphone

Software and UEFI	Software
	- ASRock Motherboard Utility (A-Tuning)
	- ASRock XFast LAN
	UEFI
	- ASRock Full HD UEFI
	- ASRock Instant Flash
	*These utilities can be downloaded from ASRock Live Update & APP Shop.
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar
Accessories	- Quick Installation Guide, Support CD, I/O Shield
	- 2 x SATA Data Cables
	- 2 x Screws for M.2 Sockets
Hardware Monitor	- Temperature Sensing: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Fan Tachometer: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Fan Multi-Speed Control: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore, CPU VDDCR_SOC, DRAM, VPPM, 1.05V_PROM_S5, +1.8V, VDDP
Form Factor	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm
	- Solid Capacitor design
	- 2oz Copper PCB
OS	- Microsoft Windows 10 64-bit / 11 64-bit
Certifications	- FCC, CE
	- ErP/EuP ready (ErP/EuP ready power supply is required)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
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