ComX Computers
Product Specification Sheet

B450-PRO4

ASRock AMD B450 PRO4 B450 Chipset Socket AM4 Motherboard

Product Overview

ASRock AMD B450 PRO4, B450 Chipset, Socket AM4, AMD Ryzen Series Support, AMD A-Series AM4 APU Support, Memory Support: DDR4 Up to 3200MHz (OC)/2400MHz for APU, 4x DIMM Dual Channel Slots (64GB Max), Storage & I/O: 6x SATA3 (4x RAID 0,1,10), 2x USB2.0, 2x USB 3.1 A/C Gen2, 4x USB 3.1 Gen1, 2x USB 2.0, 2x USB 2.0 Headers, 1x USB 3.1 Gen1 Headers, 1x Ultra M.2 Slot 1x M.2 Slot, Expansion: 2x PCI-Express x16 (Gen 3.0), 4x PCI-Express x1 Display, Audio & LAN: 1x D-SUB, 1x DP 1.2, 1x HDMI, 1x Realtek RTL8111GR Gigabit LAN Port, 8-Channel Realtek ALC892 HD Audio, Features: ASRock APP, A-Tuning, ASRock EZ UEFI, ASRock OMG, 4K UHD Support, DigiPower



Specifications

Features:

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. SSDs are fast, but expensive, and offer minimal capacity. Mechanical hard drives boast large capacity for a low price, but are much slower than an SSD. 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: SSD responsiveness, and mechanical hard disk capacity. You can also use up to 2GB of RAM as a last-level cache for ultra-fast data.

Dual M.2 For SSD
Equipped with M.2 slot that supports both SATA3 6Gb/s and PCIe Gen3 x4 Ultra M.2 interface that pushes data transfer speeds up to 32Gb/s, and is compatible with ASRock's U.2 Kit for installing some of the world's fastest U.2 PCIe Gen3 x4 SSD.

Dual USB 3.1 Gen2 (Type-A + Type-C)
This motherboard has a pair of onboard Type-A and Type-C USB 3.1 Gen2 ports built on the rear i/o for supporting next generation USB 3.1 Gen2 devices and to deliver up to 10 Gbps data transfer rates.

2oz Copper
It comes with 2 ounces copper inner layers, using only carefully selected copper materials for PCB layers, delivering lower temperature and higher energy efficiency for overclocking.

Premium Power Choke
Compared to traditional chokes, ASRock's premium power chokes effectively make the saturation current up to three times

better, thus providing enhanced and improved Vcore voltage to the motherboard.

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

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.

Triple Monitor
Graphics, graphics and even more graphics! You've demanded for more eye candy, so this motherboard supports Triple Monitor. You may choose up to three display interfaces from the rear i/o to connect monitors and use them simultaneously without installing another graphics card.

Solid Capacitor Design
ASRock applied solid capacitors on this motherboard. With these solid caps, this motherboard is allowed to perform more stably and ensure longer lifetime.

ELNA Audio Caps
Who says high quality audio is only available on high-end motherboards? ASRock applied ELNA audio capacitors on mainstream and entry-level motherboards! Compared with traditional solid caps, the leakage current of ELNA audio caps is merely 3uA. This is the key to reduce noise level significantly and satisfy even the pickiest audiophiles.

Digi Power
Unlike traditional motherboards that use analog power, this motherboard uses a next generation digital PWM (Pulse-Width Modulation) design, which provides CPU Vcore voltage more efficiently and smoothly, so that the stability and lifespan of the motherboard is greatly enhanced.

A-Tuning
A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities.

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	B450-PRO4
Unique Feature	ASRock USB 3.1 Gen2
	- ASRock USB 3.1 Gen2 Type-A Port (10 Gb/s)
	- ASRock USB 3.1 Gen2 Type-C Port (10 Gb/s)
	ASRock Super Alloy
	- Premium Power Choke
	- Sapphire Black PCB
	- High Density Glass Fabric PCB
	- 2oz Copper PCB
	ASRock Ultra M.2 (PCIe Gen3 x4)
	ASRock Full Spike Protection (for all USB, Audio, LAN Ports)
	ASRock Live Update & APP Shop
CPU	- AMD AM4 Socket
	- Digi Power design
	- 9 Power Phase design
	- Supports 105W Water Cooling (Pinnacle Ridge); Supports 95W Water Cooling (Summit Ridge); Supports 65W Water Cooling (Raven Ridge)
Chipset	- AMD Promontory B450
Memory	- Dual Channel DDR4 Memory Technology
	- 4 x DDR4 DIMM Slots
	- AMD Ryzen series CPUs (Pinnacle Ridge) support DDR4 3200+(OC)/2933(OC)/2667/2400/2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series CPUs (Summit Ridge) support DDR4 3200+(OC)/2933(OC)/2667/2400/2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series CPUs (Raven Ridge) support DDR4 3200+(OC)/2933/2667/2400/2133 non-ECC, un-buffered memory
	- Max. capacity of system memory: 64GB
	- 15u Gold Contact in DIMM Slots
BIOS	- 128Mb AMI UEFI Legal BIOS with multilingual GUI support
	- Supports "Plug and Play"
	- ACPI 5.1 compliance wake up events
	- Supports jumperfree
	- SMBIOS 2.3 support
	- DRAM 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 1.2
	- Supports Triple Monitor
	- Supports HDMI with max. resolution up to 4K x 2K (4096x2160) @ 24Hz / (3840x2160) @ 30Hz
	- Supports DisplayPort 1.2 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz
	- 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 Port (Compliant HDMI monitor is required)
	- Supports HDCP with HDMI and DisplayPort 1.2 Ports
	- Supports 4K Ultra HD (UHD) playback with HDMI and DisplayPort 1.2 Ports
	*Actual support may vary by CPU
	**The Max shared memory 16GB requires 32GB system memory installed.
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
	- Premium Blu-ray Audio support
	- Supports Surge Protection
	- ELNA Audio Caps
	*To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.
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 (Summit Ridge and Pinnacle Ridge)
	- 2 x PCI Express 3.0 x16 Slots (PCIE2: x16 mode; PCIE4: x4 mode)
	AMD Ryzen series CPUs (Raven Ridge)
	- 2 x PCI Express 3.0 x16 Slots (PCIE2: x8 mode; PCIE4: x4 mode) (If you use Athlon 2xxGE series APU, PCIE2 slot will run at x4 mode.)
	- 4 x PCI Express 2.0 x1 Slots
	- Supports AMD Quad CrossFireX and CrossFireX
	*Supports NVMe SSD as boot disks
	If M2_1 is occupied, PCIE4 will be disabled.
	**This feature is only supported with Ryzen Series CPUs (Summit Ridge, Pinnacle Ridge and Raven Ridge).

Storage	- 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug
	- 2 x SATA3 6.0 Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug
	- 1 x Ultra M.2 Socket (M2_1), supports M Key type 2242/2260/2280 M.2 PCI Express module up to Gen3 x4 (32 Gb/s) (with Summit Ridge, Raven Ridge and Pinnacle Ridge) or Gen3 x2 (16 Gb/s) (with Athlon 2xxGE series APU)
	- 1 x M.2 Socket (M2_2), supports M Key type 2230/2242/2260/2280/22110 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x2 (16 Gb/s)
	*M2_2, SATA3_3 and SATA3_4 share lanes. If either one of them is in use, the others will be disabled.
	**If M2_1 is occupied, PCIE4 will be disabled.
	Supports NVMe SSD as boot disks
	Supports ASRock U.2 Kit
Connector	- 1 x COM Port Header
	- 1 x TPM Header
	- 1 x Power LED and Speaker Header
	- 1 x RGB LED Header
	- 1 x Addressable LED Header
	- 1 x AMD Fan LED Header
	- 1 x CPU Fan Connector (4-pin)
	- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)
	- 3 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)
	- 1 x USB 3.1 Gen1 Header (Supports 2 USB 3.1 Gen1 ports) (Supports ESD Protection)
	*Supports in total up to 12V/3A, 36W LED Strip
	**Supports in total up to 5V/3A, 15W LED Strip
	*The AMD Fan LED Header supports LED strips of maximum load of 3A (36W) and length up to 2.5M.
	**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 and CHA_FAN3/WP can auto detect if 3-pin or 4-pin fan is in use.

Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port
	- 1 x D-Sub Port
	- 1 x HDMI Port
	- 1 x DisplayPort 1.2
	- 2 x USB 2.0 Ports (Supports ESD Protection)
	- 1 x USB 3.1 Gen2 Type-A Port (10 Gb/s) (Supports ESD Protection)
	- 1 x USB 3.1 Gen2 Type-C Port (10 Gb/s) (Supports ESD Protection)
	- 4 x USB 3.1 Gen1 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 A-Tuning
	- ASRock Polychrome RGB
	- ASRock XFast LAN
	UEFI
	- ASRock Full HD UEFI
	- ASRock Instant Flash
	- ASRock Easy RAID Installer
	*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, MB
	- 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, Vcore
Form Factor	- ATX Form Factor: 12.0-in x 8.8-in, 30.5 cm x 22.4 cm
	- Solid Capacitor design
OS	- Microsoft Windows 10 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:
https://www.comx-computers.co.za/B450-PRO4-ASRock-AMD-B450-PRO4-B450-Chipset-Socket-AM4-Motherboard-p-213929.php

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