

ASROCK B450M PRO4 R2.0 (AM4, amd B450, 4xDDR4 3200, 4xSATA3, 7.1, USB3.1, VGA+DVI +HDMI, mATX)

cena vč DPH: **2136 Kč**

cena bez DPH: 1765 Kč

Kód zboží (ID): 5215972

PN: B450M-PRO4-R2-0

Záruka: 24 měsíců



Supports AMD AM4 Socket Ryzen™ 2000, 3000, 4000 G-Series, 5000 and 5000 G-Series Desktop Processors Supports DDR4 3200* 1 PCIe 3.0 x16, 1 PCIe 2.0 x16, 1 PCIe 2.0 x1 AMD Quad CrossFireX™ Graphics Output:HDMI, DVI-D, D-Sub 7.1 CH HD Audio (Realtek ALC892/897 Audio Codec) 4 SATA3, 1 Ultra M.2 (PCIe Gen3 x4), 1 M.2 (SATA3) 2 USB 3.2 Gen2 (Rear Type-A+C) 6 USB 3.2 Gen1 (2 Front, 4 Rear) Realtek Gigabit LAN *Actual support may vary by CPU. 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 - Premium 42A 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 - Supports AMD AM4 Socket Ryzen™ 2000, 3000, 4000 G-Series, 5000 and 5000 G-Series Desktop Processors - Digi Power design - 10 Power Phase design Chipset - AMD Promontory B450 Memory - Dual Channel DDR4 Memory Technology - 4 x DDR4 DIMM Slots - AMD Ryzen series CPUs (Vermeer) support DDR4 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory* - AMD Ryzen series CPUs (Matisse) support DDR4 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory* - AMD Ryzen series APUs (Cezanne) support DDR4 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory* - AMD Ryzen series APUs (Renoir) support DDR4 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory* - 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 (Picasso) support DDR4 2933 / 2667 / 2400 / 2133 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: 128GB** - Supports Extreme Memory Profile (XMP) memory modules - 15µ Gold Contact in DIMM Slots *For Ryzen Series APUs (Picasso, Cezanne, Renoir and Raven Ridge), ECC is only supported with PRO CPUs. SR: Single rank DIMM, 1Rx4 or 1Rx8 on DIMM module label 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 - 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, DVI-D and HDMI - Supports Triple Monitor - Supports HDMI 1.4 with max. resolution up to 4K x 2K (4096x2160) @ 24Hz / (3840x2160) @ 30Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 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 1.4 Port (Compliant HDMI monitor is required) - Supports HDCP 1.4 with DVI-D and HDMI 1.4 Ports - Supports 4K Ultra HD (UHD) playback with HDMI 1.4 Port *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 ALC892/897 Audio Codec) - Supports Surge Protection 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, Matisse, Cezanne, Renoir, Summit Ridge and Pinnacle Ridge) - 1 x PCI Express 3.0 x16 Slot (PCIE2: x16 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) AMD Ryzen series CPUs (Picasso, Raven Ridge) - 1 x PCI Express 3.0 x16 Slot (PCIE2: x8 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) AMD Athlon series CPUs - 1 x PCI Express 3.0 x16 Slot (PCIE2: x4 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) - 1 x PCI Express 2.0 x1 Slot - Supports AMD Quad CrossFireX™ and CrossFireX™ *Supports NVMe SSD as boot disks Storage - 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), 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 Vermeer, Matisse, Cezanne, Renoir, Picasso, Summit Ridge, Raven Ridge and Pinnacle Ridge) or Gen3 x2 (16 Gb/s) (with Athlon series APU)** - 1 x M.2 Socket (M2_2), supports M Key type 2230/2242/2260/2280 M.2 SATA3 6.0 Gb/s module *M2_2 and SATA3_3 share lanes. If either one of them is in use, the other one 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 Chassis Intrusion 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 3.2 Gen1 Header (Supports 2 USB 3.2 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 DVI-D Port - 1 x HDMI Port - 2 x USB 2.0 Ports (Supports ESD Protection) - 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

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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, DVI-D and HDMI - Supports Triple Monitor - Supports HDMI 1.4 with max. resolution up to 4K x 2K (4096x2160) @ 24Hz / (3840x2160) @ 30Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 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 1.4 Port (Compliant HDMI monitor is required) - Supports HDCP 1.4 with DVI-D and HDMI 1.4 Ports - Supports 4K Ultra HD (UHD) playback with HDMI 1.4 Port *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 ALC892/897 Audio Codec) - Supports Surge Protection 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, Matisse, Cezanne, Renoir, Summit Ridge and Pinnacle Ridge) - 1 x PCI Express 3.0 x16 Slot (PCIE2: x16 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) AMD Ryzen series CPUs (Picasso, Raven Ridge) - 1 x PCI Express 3.0 x16 Slot (PCIE2: x8 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) AMD Athlon series CPUs - 1 x PCI Express 3.0 x16 Slot (PCIE2: x4 mode)* - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) - 1 x PCI Express 2.0 x1 Slot - Supports AMD Quad CrossFireX™ and CrossFireX™ *Supports NVMe SSD as boot disks Storage - 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), 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 Vermeer, Matisse, Cezanne, Renoir, Picasso, Summit Ridge, Raven Ridge and Pinnacle Ridge) or Gen3 x2 (16 Gb/s) (with Athlon series APU)** - 1 x M.2 Socket (M2_2), supports M Key type 2230/2242/2260/2280 M.2 SATA3 6.0 Gb/s module *M2_2 and SATA3_3 share lanes. If either one of them is in use, the other one 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 Chassis Intrusion 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 3.2 Gen1 Header (Supports 2 USB 3.2 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 DVI-D Port - 1 x HDMI Port - 2 x USB 2.0 Ports (Supports ESD Protection) - 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