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ASRock

MB AM4 AsRock B450M-HDV R4.0 90-MXB9N0-A0UAYZ

Dostupnost: NA STANJU

MP cena: 7.090,00 din

Šifra proizvoda: 21474

6.190,00 din

Ušteda: 900,00 din

Opis

- **ASRock Super Alloy**
 - High Density Glass Fabric PCB
 - Sapphire Black PCB
- **ASRock Ultra M.2** (PCIe Gen3 x4 & SATA3)
- **ASRock Full Spike Protection** (for all USB, Audio, LAN Ports)
- **ASRock Live Update & APP Shop**
- CPU
 - Supports AMD AM4 Socket Ryzen™ 2000, 3000 and 5000 Series Desktop Processors
 - 6 Power Phase design
 - Supports CPU up to 105W
- Chipset
 - AMD Promontory B450
- Memory
 - Dual Channel DDR4 Memory Technology
 - 2 x DDR4 DIMM Slots
 - AMD Ryzen series CPUs (Matisse) 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: 64GB*
 - Supports Extreme Memory Profile (XMP) memory modules
 - 15µ Gold Contact in DIMM Slots

*For Ryzen Series CPUs (Picasso and Raven Ridge), ECC is only supported with PRO CPUs.
Please refer to below table for DDR4 UDIMM maximum frequency support.

Ryzen Series CPUs (Matisse):

UDIMM Memory Slot		Frequency (Mhz)
A1	B1	
SR	-	3200
-	SR	3200
DR	-	3200
-	DR	3200
SR	SR	3200
DR	DR	3200

Ryzen Series CPUs (Pinnacle Ridge):

UDIMM Memory Slot	Frequency
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UDIMM Memory Slot		Frequency
A1	B1	(Mhz)
SR	-	2933
-	SR	2933
DR	-	2933
-	DR	2933
SR	SR	2933
DR	DR	2933

Ryzen Series CPUs (Picasso):

UDIMM Memory Slot		Frequency
A1	B1	(Mhz)
SR	-	2933
-	SR	2933
DR	-	2667
-	DR	2667
SR	SR	2933
DR	DR	2667

Ryzen Series CPUs (Summit Ridge):

UDIMM Memory Slot		Frequency
A1	B1	(Mhz)
SR	-	2667
-	SR	2667
DR	-	2667
-	DR	2667
SR	SR	2667
DR	DR	2667

Ryzen Series CPUs (Raven Ridge):

UDIMM Memory Slot		Frequency
A1	B1	(Mhz)
SR	-	2933
-	SR	2933
DR	-	2667
-	DR	2667
SR	SR	2933
DR	DR	2667

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 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 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 2048x1536 @ 60Hz

- Supports D-Sub with max. resolution up to 2048x1536 @ 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 1.4 with DVI-D and HDMI Ports
- Supports 4K Ultra HD (UHD) playback with HDMI Port

*Actual support may vary by CPU

**The Max shared memory 16GB requires 32GB system memory installed.

- Audio
 - 7.1 CH HD Audio (Realtek ALC887/897 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 (Matisse, Summit Ridge and Pinnacle Ridge)
 - 1 x PCI Express 3.0 x16 Slot (PCIe2: x16 mode)*
 - AMD Ryzen series CPUs (Picasso, Raven Ridge)
 - 1 x PCI Express 3.0 x16 Slot (PCIe2: x8 mode)*
 - AMD Athlon series CPUs**
 - 1 x PCI Express 3.0 x16 Slot (PCIe2: x4 mode)*
 - 1 x PCI Express 2.0 x1 Slot

*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, supports M Key type 2242/2260/2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x4 (32 Gb/s) (with Matisse, Picasso, Summit Ridge, Raven Ridge and Pinnacle Ridge) or Gen3 x2 (16 Gb/s) (with Athlon series APU)*

*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 and Speaker Header
 - 1 x CPU Fan Connector (4-pin)*
 - 2 x Chassis Fan Connectors (1 x 3-pin, 1 x 4-pin)**
 - 1 x 24 pin ATX Power Connector
 - 1 x 4 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)

*The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.

**The Chassis Fan Connector supports the chassis fan of maximum 1A (12W) fan power.

- 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)
 - 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 XFast LAN

- 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
 - 1 x Screw for M.2 Socket
- Hardware Monitor
 - CPU/Chassis temperature sensing
 - CPU/Chassis Fan Tachometer
 - CPU/Chassis Quiet Fan
 - CPU/Chassis Fan multi-speed control
 - CASE OPEN detection
 - Voltage monitoring: +12V, +5V, +3.3V, Vcore
- Form Factor
 - Micro ATX Form Factor: 9.0-in x 7.9-in, 23.0 cm x 20.1 cm
 - Solid Capacitor design

Specifikacija