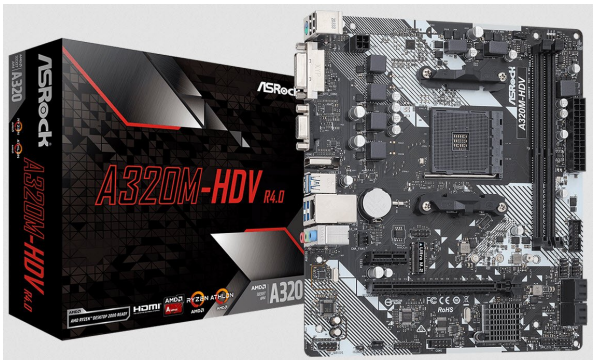
A320M-HDV R4.0

Asrock A320M-HDV R4.0 AMD Promontory A320 Chipset AMD Ryzen Socket AM4 Micro ATX Motherboard

Product Overview

ASRock AMD A320M-HDV R4.0, A320 Chipset, Socket AM4, AMD Ryzen Series Support. Supports A-Series APUs and Ryzen 2000,3000,4000 and 5000 Series, Memory Support: DDR4 Up to 3200+MHz+(OC), 2x DIMM Dual Channel Slots (32GB Max), Storage & I/O: 4 x SATA3 6.0 Gb/s, 1x Ultra M.2 Socket, 2 x USB 2.0 Ports, 4 x USB 3.2 Gen1 Ports, Expansion: 1 x PCI Express 3.0 x16 Slot, 1 x PCI Express 2.0 x1 Slot, Display, Audio & LAN: HDMI, DVI-D, D-Sub, 7.1 CH HD Audio Realtek ALC887/897, Realtek Gigabit LAN, Graphics: Integrated AMD Radeon Vega Series And R-Series, DirectX 12, Pixel Shader 5.0, Supports Triple Monitor, HDMI Max (4096x2160)@24Hz (3840x2160)@30Hz, DVI-D Max (1920x1200)@60Hz, D-Sub Max (2048x1536)@60Hz, Features: ASRock Motherboard Utility (A-Tuning), ASRock APP Charger, ASRock XFast LAN, ASRock Super Alloy, Sapphire Black PCB



Specifications

Features:

Ultra M.2 32 Gb/s (PCIe Gen3 x4 & SATA3)
The PCIe Gen3 x4 Ultra M.2 interface pushes data transfer speeds up to 32Gb/s. In addition, it also supports SATA3 6Gb/s M.2 modules, and is compatible with ASRock's U.2 Kit for installing some of the world's fastest U.2 PCIe Gen3 x4 SSDs.

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.

4K x 2K
Composed by a minimum of 3840 x 2160 pixels, which is twice the horizontal and vertical resolution of the 1080p format.

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.

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.

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.

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	A320M-HDV R4.0
Unique Feature	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 Socket AM4 A-Series APUs (Bristol Ridge) and Ryzen Series CPUs (Vermeer, Renoir, Matisse, Picasso, Summit Ridge, Raven Ridge and Pinnacle Ridge)
	- 6 Power Phase design
	- Supports CPU up to 105W
	*Bristol Ridge does not supports since BIOS version 7.XX.
	Vermeer and Renoir CPUs are supported after updating the BIOS, using another CPU for that update.
Chipset	- AMD Promontory A320

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
	- AMD 7 Gen A-Series APUs support DDR4 2400 / 2133 non-ECC, un-buffered memory
	- Max. capacity of system memory: 32GB
	- 15u 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.
	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
	- Integrated AMD Radeon R-Series Graphics in A-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 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 1.4 Ports
	- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
	*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 7 A-Series APUs
	- 1 x PCI Express 3.0 x16 Slot (PCIE2: x8 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 A-Series APU and 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 4-pin, 1 x 3-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 3.2 Gen1 Header (Supports 2 USB 3.2 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 3.2 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 Motherboard Utility (A-Tuning)
	- ASRock APP Charger
	- 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
OS	- Microsoft Windows 10 64-bit / 11 64-bit
	*Bristol Ridge and Summit Ridge do not officially support Windows 11.
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/A320M-HDV-R4-0-Asrock-A320M-HDV-R4-0-AMD-Promontory-A320-Chipset-AMD-Ryzen-Socket-p-265884.php

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