A320M-HDV

Asrock A320M-HDV AMD Promontory A320 Chipset AM4 Motherboard

Product Overview

Asrock A320M-HDV AMD Promontory A320 Chipset AM4 Motherboard, 2 x DDR4 DIMM Slots, AMD Ryzen series CPUs support DDR4 3200+(OC)/2933(OC)/2667/2400/2133 ECC & non-ECC, un-buffered memory, Max. capacity of system memory: 32GB, Integrated AMD Radeon™ R-Series Graphics in A-series APU, 7.1 CH HD Audio (Realtek ALC887 Audio Codec), PCIE x1 Gigabit LAN 10/100/1000 Mb/s, 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug, 1 x Print Port Header, 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 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection), 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 3.0 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, Micro ATX Form Factor: 9.1-in x 8.1-in, 23.1 cm x 20.6 cm



Specifications

Features:

Armor Your VR Machine
Prepare yourself well to enjoy the impressive world of Virtual Reality. Before that, you have to make sure everything is qualified, including hardware, software and drivers. Motherboard is the key to connect every critical components and ASRock's VR Ready motherboards are definitely the one you're looking for. The premium qualify is assured by rigorous testing during development. The sturdy components and rock-slid performance makes you completely immersive in the VR scenario. Users can be assured to experience VR enjoyments without any compatibility problems.

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.

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.

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.

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.

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

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
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 (Summit Ridge)
	- Digi Power design
	- 7 Power Phase design
	- Supports CPU up to 65W
Chipset	- AMD Promontory A320
Memory	- Dual Channel DDR4 Memory Technology
	- 2 x DDR4 DIMM Slots
	- AMD Ryzen series CPUs support DDR4 3200+(OC)/2933(OC)/2667/2400/2133 ECC & non-ECC, un-buffered memory
	- AMD 7 Gen A-Series APUs support DDR4 2400/2133 ECC & non-ECC, un-buffered memory
	- Max. capacity of system memory: 32GB
	- 15u Gold Contact in DIMM Slots
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 R-Series Graphics in A-series APU
	- DirectX 12, Pixel Shader 5.0
	- Max. shared memory 2GB
	- 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 with DVI-D and HDMI Ports
	- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
	*Actual support may vary by CPU
Audio	- 7.1 CH HD Audio (Realtek ALC887 Audio Codec)
	- 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 RTL8111GR
	- Supports Wake-On-LAN
	- Supports Lightning/ESD Protection
	- Supports LAN Cable Detection
	- Supports Energy Efficient Ethernet 802.3az
	- Supports PXE
Slots	AMD Ryzen series CPUs
	- 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)
	- 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 Ryzen Series CPU) or Gen3 x2 (16 Gb/s) (with A-Series APU)
	*Supports ASRock U.2 Kit
	Supports NVMe SSD as boot disks
Connector	- 1 x Print Port Header
	- 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 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection)
	*The CPU Fan Connector supports the CPU 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 3.0 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 APP Charger
	- ASRock XFast LAN
	UEFI
	- ASRock Full HD UEFI
	- ASRock Instant Flash
	- ASRock Internet Flash
	- ASRock Crashless BIOS
	- 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: 9.1-in x 8.1-in, 23.1 cm x 20.6 cm
	- Solid Capacitor design
OS	- Microsoft Windows 10 64-bit
	*For the updated Windows 10 driver, please visit ASRock's website for details.
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-Asrock-A320M-HDV-AMD-Promontory-A320-Chipset-AM4-Motherboard-p-211390.php

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