



Mainboard
ASROCK AMD
B650 SAM5
Micro-ATX
Memory DDR5
Memory slots 2
1xPCI-Express
4.0 1x 2xPCI-
Express 4.0 16x
1xM.2 1xHDMI
1xDisplayPort
1xAudio-In
1xAudio-Out
1xMicrophone
4xUSB 2.0
2xUSB 3.2
1xUSB-C 1xRJ45
B650M-HDV/M.2

Model: B650M-HDV/M.2

Manufacturer: ASROCK

EAN: 4710483942693

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R2,675

Dr. MOS

Dr.MOS is the integrated power stage solution which is optimized for synchronous buck-set down voltage applications! Compared to traditional discrete MOSFETs, it intelligently delivers higher current for each phase, thus providing improved thermal result and superior performance.

8+2+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU, offering enhanced performance for gamers.

2oz Copper PCB

2 ounce copper inner layers that provide stable signal traces and power shapes! Delivering lower temperature and higher energy efficiency for overclocking.

DDR5 Memory with Protection Circuit

Due to the unique electrical architecture of DDR5 DIMM, there's a high risk of damaging the memory module if AC power isn't disconnected properly during removal or installation. To prevent this, ASRock has implemented a trouble free protection circuit on every DDR5 motherboard, lowers the risk of damaging your memory module.

Reinforced Steel Slot

[PCIe 4.0 Version]

The reinforced steel slot is capable of supporting PCI Express 4.0 standard. The various benefits include:

- ✓ Extra anchor points
- ✓ Stronger latch

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- ✓ Ensure signal stability
- ✓ Make sure heavy graphics cards to be well-installed.

Audio That Matters

Whether you are using headphones, a headset, external or internal speakers, via USB, Wi-Fi, analog output or even HDMI, Nahimic Audio offers you the most engaging listening experience, vibrant and rich with details.

Enhance Communication Quality

The Powerful algorithms to ensure the best noise-free conversation, giving a constant vocal level no matter the distance from your mic. The Nahimic audio engine dynamically clear the sound and remove interference noise and lower the voice variation. Result is a better comprehension and less fatigue.

- Static Noise Suppression
- Echo Cancellation
- Lateral Sound Cancellation
- Voice Stabilizer

Ultimate Gaming Experience

●Sound Tracker

The Sound Tracker is a visual indicator that points out the directions from which predominant sounds are coming. Each sound is properly positioned in 360° on a radar for a full immersion during the game.

●Works on any devices!

Enjoy the vibrant and high-quality Surround Sound on all your favorite audio devices: Jack, USB, Bluetooth, HDMI, S/PDIF. Nahimic is compatible with all of your favorite audio tools and ensures the best sound with any of them. Nahimic measure and improve to optimize our technology and offer you the best experience.

PCIe Gen5 Blazing M.2

The Blazing M.2 accommodates the latest PCI Express 5.0 standard to perform twice the bandwidth compared to previous generation, with a breathtaking 128Gb/s transfer speed, it is ready to unleash

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the full potential of future ultrafast SSDs.

Dragon 2.5 Gb/s LAN

The intelligent 2.5Gb/s LAN platform is built for maximum networking performance for the demanding requirements of home networking, content creators, online gamers and high-quality streaming media. Boost networking performance up to 2.5X the bandwidth compared to the standard gigabit Ethernet, you'll enjoy the faster and uncompromised connectivity experience for gaming, file transfers and backups.

Front USB 3.2 Gen2 Type-C

Front USB 3.2 Gen2 Type-C header delivers up to 10 Gbps data transfer rate and next generation reversible USB design to the front panel of computer case.

M.2 (KEY E) For WiFi

Besides the onboard LAN port, users may also choose 802.11ac wireless connections by M.2 (Key E) slot.

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
- 8+2+1 Power Phase, Dr.MOS
- Supports DDR5 6400+ MHz (OC)
- 2 PCIe 4.0 x16, 1 PCIe 4.0 x1, 1 M.2 Key E for WiFi
- Integrated AMD RDNA™ 2 Graphics*
- Graphics Output Options: HDMI, DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 4 SATA3, 1 Blazing M.2 (PCIe Gen5x4)
- 1 Hyper M.2 (PCIe Gen4x4)
- 1 USB 3.2 Gen2 Front Type-C
- 7 USB 3.2 Gen1 (2 Rear, 1 Rear Type-C, 4 Front)
- Dragon 2.5G LAN
- Supports ASRock Auto Driver Installer, BIOS Flashback

Summary: Asrock B650M-HDV/M.2. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen™ 7. Supported memory types: DDR5-SDRAM, Maximum internal memory: 64 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III,

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Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, LAN controller: Realtek RTL8125-BG. Component for: PC, Motherboard form factor: micro ATX, Motherboard chipset family: AMD | Vendor Homepage: <https://www.asrock.com/mb/AMD/B650M-HDVM.2/> | Audio chip: Realtek ALC897 | Audio output channels: 7.1 | Component for: PC | Motherboard chipset: AMD B650 | Motherboard chipset family: AMD | Motherboard form factor: micro ATX | Windows operating systems supported: Windows 10 x64/Windows 11 x64 | Compatible processor series: AMD Ryzen™ 7 | Processor manufacturer: AMD | Processor socket: Socket AM5 | ECC compatibility: Non-ECC | Maximum internal memory: 64 | Memory slots type: DIMM | Number of memory slots: 2 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | RAID levels: 0/1/10 | RAID support: Yes | Supported storage drive interfaces: M.2,SATA III | Supported storage drive types: HDD & SSD | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | EPS power connector (8-pin): Yes | Front panel audio connector: Yes | Number of SATA III connectors: 4 | Thunderbolt headers: 1 | TPM connector: Yes | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 2 | USB 3.2 Gen 2 (3.1 Gen 2) connectors: 1 | DisplayPort version: 1.4 | DisplayPorts quantity: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | Line-in: Yes | Microphone in: Yes | USB 2.0 ports quantity: 4 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 2 | USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity: 1 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | LAN controller: Realtek RTL8125-BG | Wi-Fi: No | Number of M.2 (M) slots: 1 | PCI Express x1 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 4.x) slots: 1 | BIOS memory size: 256 | BIOS type: EFI AMI | Depth: 226 | Width: 244 | Product Net Weight: 1.1 | Shipping Box Height: 29 | Unit Calculated Volume: 0.00529 | Unit Calculated Weight: 1.33 | Units per Pallet: 0 | Units per Shipping Box: 10 | Model: B650M-HDV/M.2

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