

Product Brief: Intel® NUC Mini PC

INTEL® NUC 8 ENTHUSIAST NUC8i7HVKVA





- Unlocked 8th Gen Intel® Core™ i7 processor
- 4 GB HBM2 dedicated graphics memory
- 16 GB RAM, 1 TB NVMe SSD
- Dual Thunderbolt™ 3
- Dual Gigabit LAN

Unlocked Performance

2 NUC8i7HVKVA PRODUCT BRIEF

Dream with your eyes open. Experience the first premium VR-capable Intel® NUC8i7HVKVA Mini PC with extreme performance for totally immersive virtual reality and smooth gameplay that's ready to go out-of-the-box. We took our Skull Canyon machine and innovated the Hades out of it—from an unlocked 8th gen Intel® Core™ i7 processor with Radeon™ RX Vega M GH graphics to a redesigned motherboard and chassis to optimize power use and size, Intel-built means the best technology available measured in gasps, shouts, and high fives.

Unthrottled performance for completely immersive virtual reality

With Windows® 10, the power of the unlocked 8th gen Intel Core i7 processor with Radeon RX Vega M GH graphics with 4 GB of dedicated high bandwidth memory, 32 GB of DDR4 RAM, and a 1 TB NVMe SSD, the NUC8i7HVKVA Mini PC handles high-performance gaming, so players can enter immersive virtual reality.

The NUC8i7HVKVA system is unlocked and optimized to give every GHz of performance needed for extreme experiences in the virtual world and includes on-board Intel® graphics as well, to assist in streaming video on Twitch* and other broadcasting sites during live game play.

There are seven USB ports and two Thunderbolt^m 3 ports for connectivity to game controllers and additional peripherals, and with front and rear HDMI* ports for a VR headset, it's easy to enter more worlds and explore new frontiers.

Experience extreme in the smallest VR-capable system available

The Mini PC packs all the performance of a desktop tower in a device that can be tucked behind a display and uses less power than the average gaming desktop PC. We redesigned the motherboard, making it smaller, more powerful, and more efficient. This, along with a redesigned chassis that is only 1.2 liters delivers a gaming PC that can fit in a backpack for easy portability to a LAN party. Plus, the skull can be customized to glow RGB when wanted—so the Mini PC looks awesome during gameplay but also can sit discretely in a living room, too.

The game is on

Go on and enter the dream with the first Intel® NUC Mini PC built for premium VR. What else would you expect from Intel? We're the pioneers of possible who make extreme experiences a true reality.

INTEL® NUC: CHANGE THE GAME

THE GAME IS ON

Highlighted Features

- 8th generation Intel® Core™ i7-8809G processor with Radeon™ RX Vega M GH graphics
- Windows® 10 Home
- 16 GB DDR4-2400 RAM (expandable to 32 GB)
- 1 TB NVMe SSD
- M.2 slot with flexible support for 42 or 80 mm PCIe* x4 or SATA3 SSD, RAID-0 or RAID-1 capable
- Intel® Dual Band Wireless-AC 8265 and Bluetooth* 4.2
- SDXC card slot
- USB 3.1 Gen 2 port
- USB-C 3.1 Gen 2 port
- Five USB 3.0 ports including one front charging port
- Two Thunderbolt™ 3 ports
- Two Mini DisplayPort* 1.2 supporting 8 channel digital audio (7.1 surround sound)
- Two Intel® Gigabit LAN ports
- Two HDMI* 2.0b ports supporting 8 channel audio (7.1 surround sound)
- 3.5mm headphone/microphone jack
- TOSLINK stereo/headphones combo jack
- DC power connector (19V)
- Support for user-replaceable third-party lids with customizable RGB LED illumination
- Kensington lock support
- Consumer infrared sensor





INTEL® NUC KIT NUC8i7HVKVA

Technical Specifications

PROCESSOR

 Intel® Core™ i7-8809G processor (3.1 to 4.2 GHz, Quad Core, 8 MB Cache, 100W TDP)

OPERATING SYSTEM

• Windows® 10 Home

GRAPHICS

- Radeon™ RX Vega M GH graphics, 1063 MHz – 1190 MHz
- 4 GB HBM2 dedicated graphics memory
- Two HDMI* 2.0b ports
- Two Mini DisplayPort* 1.2 ports
- Two Thunderbolt™ 3 ports with DisplayPort* 1.2

SYSTEM MEMORY

 16 GB DDR4-2400 RAM (expandable to 32 GB), 1.2V

STORAGE CAPABILITIES

- 1 TB NVMe SSD
- M.2 Type M key supporting 42 or 80 mm PCIe* x4 or SATA3 SSDs, RAID-0 and RAID-1 capable
- SDXC slot with UHS-I support

PERIPHERAL CONNECTIVITY

- Two Intel® Gigabit LAN ports
- Two Thunderbolt 3 ports
- Four USB 3.0 ports
- Front USB 3.0 charging port
- Front USB 3.1 Gen 2
- Front USB 3.1 Gen 2 via USB-C
- Intel® Dual Band Wireless-AC 8265 (802.11ac), 2x2, up to 867 Mbps
- Bluetooth* 4.2

SYSTEM BIOS

- 128 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V3.0b, SMBIOS2.5
- Intel® Visual BIOS
- Intel® Express BIOS update support

HARDWARE MANAGEMENT FEATURES

- Processor fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

EXPANSION CAPABILITIES

- Two Hi-Speed USB 3.0 ports via internal headers
- Two USB 2.0 ports, Front Panel signals, and CEC via internal common I/O header

AUDIO

- Up to 7.1 surround audio via HDMI and Mini DisplayPort signals
- Headphone/microphone jack on the front panel
- Stereo headphones/TOSLINK combo rear jack

MECHANICAL CHASSIS SIZE

- 221 mm x 142 mm x 39 mm (1.2 L)
- 8.7" x 5.59" x 1.53"

BASEBOARD POWER REQUIREMENTS

• 19V, 230W AC-DC power adapter

ENVIRONMENT OPERATING TEMPERATURE

• 0° C to +40° C

STORAGE TEMPERATURE

• -20° C to +70° C

SAFETY REGULATIONS AND STANDARDS

- IEC/EN/UL 60950-1
- IEC/EN/UL 62368-1

EMC/RF REGULATIONS AND STANDARDS

- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- EN 300 440
- EN 301 489-1/3/17
- EN 62311
- AS/NZS 4268
- AS/NZS 2772.2
- ARPANSA

ENVIRONMENTAL REGULATIONS

- EU RoHS
- · China RoHS
- Taiwan BSMI RoHS
- REACH

To change the game, visit: www.intel.com/nuc

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Actual Intel® NUC kit may differ from the image shown.

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