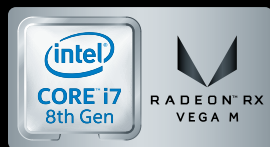




Product Brief

INTEL® NUC KIT NUC8i7HVK



- 4 GB HBM2 dedicated graphics memory
- Front and rear HDMI* 2.0a ports
- Dual Thunderbolt™ 3
- Dual Gigabit LAN

Unlocked Performance



DARK. MYSTERIOUS. POWERFUL.



Dream with your eyes open. Experience the first premium VR-optimized Intel® NUC kit with extreme performance for totally immersive virtual reality and smooth game-play. We took our Skull Canyon machine and innovated the Hades out of it—from an unlocked¹ 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 you get the best technology available measured in gasps, shouts, and high fives.

Unthrottled performance for completely immersive virtual reality

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 lets you handle high-performance gaming, so you can enter immersive virtual reality. When two great technology companies—Intel and AMD—come together to create the best and smallest system built for VR, you know you can truly walk into new virtual experiences. The Intel® NUC8i7HVK kit is unlocked and optimized to give you every GHz of performance you need for extreme experience in the virtual world and includes on-board Intel® graphics as well, to assist in streaming video to your friends on Twitch* and other broadcasting sites during live game play.

With room for up to 32 GB of DDR4 RAM and two M.2 slots to add SSDs, you can store data locally and load maps fast. There are seven USB ports and two Thunderbolt™ 3 ports so you've got all the connectivity you need for game controllers and additional peripherals, and with front and rear HDMI* ports for a VR headset, you can enter more worlds and explore new frontiers.

Experience extreme in the smallest VR-capable system available

The Intel NUC kit packs all the performance of a desktop tower in a device that can fit in the palm of your hand and uses less power than your 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 means that you've got a gaming system that you can drop in your backpack and head out to a LAN party. Plus, you can customize the skull to glow RGB when you want—so you can have a machine that looks awesome during gameplay but fits in your living room, too.

The game is on

Go on and enter the dream with the first Intel® NUC kit 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

- 1 8th generation Intel® Core™ i7-8809G processor with Radeon™ RX Vega M GH graphics
- 2 Two DDR4 SO-DIMM sockets (up to 32 GB, 2400+ MHz)
- 3 Two M.2 slots with flexible support for 42 or 80 mm PCIe* x4 or SATA3 SSDs, RAID-0 or RAID-1 capable
- 4 Intel® Dual Band Wireless-AC 8265 and Bluetooth* 4.2
- 5 Kensington lock support
- 6 Consumer infrared sensor
- 7 SDXC card slot
- 8 USB 3.1 Gen 2 port
- 9 USB 3.0 charging port
- 10 HDMI* 2.0a port supporting 8 channel audio (7.1 surround sound)
- 11 USB-C 3.1 Gen 2 port
- 12 3.5mm Headphone/microphone jack
- 13 Support for user-replaceable third-party lids with customizable RGB LED illumination
- 14 TOSLINK stereo/headphones combo jack
- 15 DC power connector (19V)
- 16 Two Thunderbolt™ 3 ports
- 17 Two Mini DisplayPort* 1.2 supporting 8 channel digital audio (7.1 surround sound)
- 18 Two Intel® Gigabit LAN ports
- 19 Four USB 3.0 ports
- 20 HDMI 2.0a display port supporting 8 channel audio (7.1 surround sound)

INTEL® NUC KIT NUC8i7HVK

Technical Specifications

PROCESSOR

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

GRAPHICS

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

SYSTEM MEMORY

- Two DDR4 SO-DIMM sockets (up to 32 GB, 2400 MHz), 1.2V

STORAGE CAPABILITIES

- Two 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
- Five USB 3.1 Gen 2 ports (four back panel ports and one front port)
- Front USB 3.0 charging port
- Front USB 3.1 Gen 2 via USB-C
- Two additional USB 3.0 ports via internal headers
- Two additional USB 2.0 ports via internal headers
- 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
- 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°

PRODUCT SAFETY REGULATIONS AND STANDARDS

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

EMC/RF REGULATIONS AND STANDARDS (CLASS B)

- CISPR 22
- FCC CFR Title 47, Chapter I, Part 15, Subparts A, B
- ICES-003
- EN 55022
- EN 55024
- ETSI EN 300 328
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 301 893
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- VCCI V-3, V-4
- KN-22
- KN-24
- CNS 13438

ENVIRONMENTAL REGULATIONS

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS MII Order #39

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

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