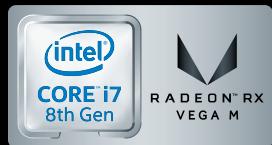




Product Brief

INTEL® NUC KIT NUC8i7HMK



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

Serious Performance



MORE ADRENALINE, LESS CAFFEINE.

Experience extreme. At only 1.2 liters—which means you can drop it into a messenger bag or tuck it out of sight in your office or living space—the Intel® NUC8i7HMK kit is the smallest NUC capable of AAA gaming or 360° video editing. We innovated the Hades out of our Skull Canyon NUC—with an 8th generation Intel® Core™ i7 processor with Radeon™ RX Vega M GL graphics—and redesigned the 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.

Grab every GHz of performance for gaming and content creation

With an 8th gen Intel Core i7 processor with Radeon RX Vega M GL graphics with 4 GB of dedicated high bandwidth memory, the Intel NUC8i7HMK kit delivers extreme gaming performance as well as the performance you need for 360° video editing and rendering. On-board Intel® HD Graphics 630 assists in streaming video to Twitch* and other broadcast sites during live game play, while the discrete Radeon RX Vega M GL graphics handles your high-performance game.

Extreme connectivity for controllers and peripherals

With front and rear HDMI* ports, two Mini DisplayPort* ports, and two Thunderbolt™ 3 ports, you can have up to four 4K displays together to see your games or creations in living color. There's room for up to 32 GB of DDR4 RAM and two M.2 SSDs in a RAID-0 or RAID-1

configuration, giving you a system that loads maps screaming fast and serves up your photo and video files quickly.

The six USB ports, one USB-C port, and the two Thunderbolt 3 ports assure fast data transfer and enough connectivity ports for controllers, graphics tablets, scanners, and music keyboards, along with a QWERTY keyboard, so you can create more amazing.

Design optimized in the smallest package available

The Intel NUC8i7HMK kit packs all the performance of a desktop tower in a device that can sit in the palm of your hand. The system is fast as Hades so you can slay your opponents or task swap with ease between CAD workloads and 3D jobs.

The skull on the lid can be customized to light up RGB—or not—so the Intel NUC8i7HMK kit is at home in the office, the living room, or at a LAN party. And its small size means you can integrate it discretely in any location and move it without a hand truck.

Reach your #goals

Whether it's the office, your living room, or your den, the Intel NUC8i7HMK kit delivers more performance and more amazing. 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™ i7-8805G processor with Radeon™ RX Vega M GL 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 NUC8i7HMK

Technical Specifications

PROCESSOR

- Intel® Core™ i7-8705G processor (3.1 to 4.2 GHz Turbo, Quad Core, 8 MB Cache, 65W TDP)

GRAPHICS

- Radeon™ RX Vega M GL graphics, 931 MHz – 1011 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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