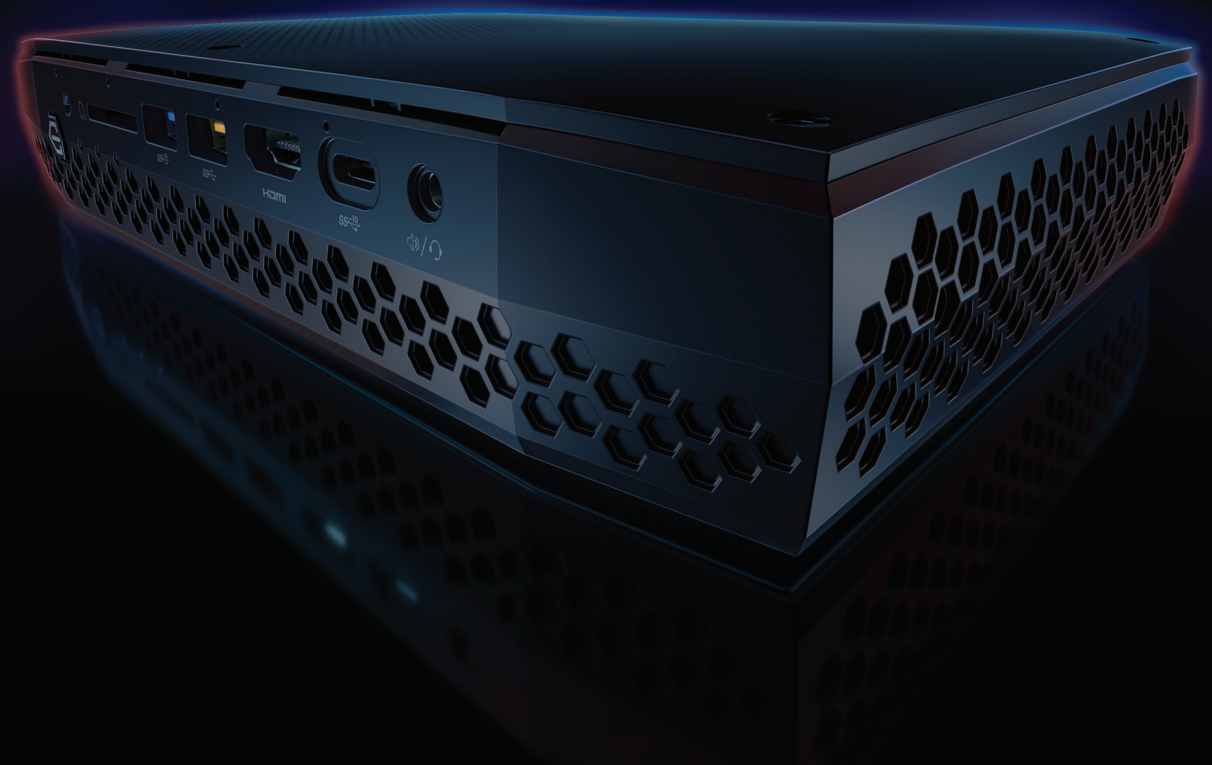
Product Brief: Intel® NUC Mini PC

INTEL® NUC 8 BUSINESS

NUC8i7HNKQC



- 4 GB HBM2 dedicated graphics memory
- 16 GB RAM, 512 GB NVMe SSD
- Dual Thunderbolt™ 3
- Dual Gigabit LAN

Serious Performance

WHO SAYS SMALL ISN'T POWERFUL?

Experience extreme. At only 1.2 liters—which means it can be dropped into a messenger bag or tucked out of sight in an office or living space—the Intel® NUC8i7HNKQC Mini PC is the smallest NUC capable of AAA gaming or 360° video editing and is ready to go out-of-the-box. We innovated the Hades out of our Skull Canyon NUC—upgrading it 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 the best technology available measured in gasps, shouts, and high fives.

Grab every GHz of performance for gaming and content creation

The Intel NUC8i7HNKQC Mini PC delivers extreme gaming performance as well as the performance for 360° video editing and rendering. With Windows® 10 Pro, an 8th gen Intel Core i7 processor with Radeon RX Vega M GL graphics with 4 GB of dedicated high bandwidth memory, 16 GB of DDR4 RAM, and a 512 GB NVMe SSD, the Mini PC loads maps screaming fast and serves up photo and video files quickly.

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 high-performance games. All this means a Mini PC as powerful as the biggest tower or laptop.

Extreme connectivity for controllers and peripherals

With front and rear HDMI* ports, two Mini DisplayPort* ports, and two Thunderbolt™ 3 ports, the NUC8i7HNKQC Mini PC can handle up to five 4K displays or one 5K display for games or creations in living color.

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, for the ability to create more amazing.

Design optimized in the smallest package available

The Intel NUC8i7HNKQC Mini PC packs all the performance of a desktop tower in a device that you can tuck behind a display. The system is fast as Hades for slaying opponents or task swapping with ease between CAD workloads and 3D jobs.

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

Reach your #goals

Whether it's the office, the living room, or the den, the Intel NUC8i7HNKQC Mini PC 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

- 8th generation Intel® Core™ i7-8705G processor with Radeon™ RX Vega M GL graphics
- Windows® 10 Professional
- 16 GB DDR4-2400 RAM (expandable to 32 GB)
- 512 GB 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 NUC8i7HNKQC

Technical Specifications

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

OPERATING SYSTEM
- Windows® 10 Professional

GRAPHICS
- Radeon™ RX Vega M GL graphics, 931 MHz – 1011 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
- 512 GB 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
- 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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0818/BCP/HBD/PDF 337973-002US

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