

NUC8i7HNK Hades Canyon

The Next Big Thing in a small package

The Simply NUC8i7HNK delivers High-End Gaming Class Graphics in a cost-, power-, and space-efficient package. Perfect for Video Editing, Video Rendering, Graphics Editing, Serious High-End Business Applications, and running multiple applications at the same time. And when work is done and it's time to play, the Hades Canyon can play the latest and hottest games at full rendering at a minimum of 60fps and a typical competition setup running 144 to 200fps all while running at a fairly quiet level and using less than 130 watts of power. Its small size means you can take it with you for gaming or video editing on the go.

All of this in a small 8.7" x 5.6" x 1.54" sized package which can mount behind your monitor or be located unobtrusively in plain sight due to its small size.

The Simply NUC8i7HNK can also act as a small business server due to the dual GbE adapters that have server drivers and the dual Thunderbolt 3 ports for high-speed I/O.

Intel and AMD come together at last

The Simply NUC8i7HNK combines a new Intel Core-i7 processor with the AMD Radeon RX Vega M GPU in a unique way to maximize the communications between the two chips on a carrier that also has 4GB of 1024-bit wide HBM2 graphics memory. This new concept maximizes the performance allowing lower power chips to perform as well as higher wattage parts in a typically desktop configuration.

The Simply NUC8i7HNK supports up to six monitors at 4K resolution, 5K monitors, or higher refresh monitors.

A single 8.1 surround sound digital audio stream is supported through the HDMI or mDP video link and supports HDCP 2.2

Cut the cords, not Performance

The Simply NUC8i7HNK comes with Intel® 802.11ac wireless, called Gigabit wireless, for connectivity right out-of-the-box. This makes it simple to immediately access files in the cloud, and with built-in Bluetooth 4.2, you can connect wireless peripherals like headsets and keyboards.

Highlighted features

- 8th Gen Intel® Quad-Core i7 G Model
- AMD Radeon RX Vega M GPU
- 8GB DDR4-2400 (64GB Max)
- 128GB M.2 SATA SSD (2x2TB Max)
- Full-size SDXC card slot
- Dual HDMI 2.0 supporting 4K @ 60Hz
- Dual mDP 1.2 (up to 3 displays each)
- Dual Thunderbolt 3 (supports Alt-DP)
- Dual Intel® Gigabit LAN
- Intel® Dual Band Wireless-AC
- Intel® Bluetooth 4.2
- Five USB 3.0 Ports. One w/Charging
- Four USB 3.1 Gen 2 Ports (10Gb/s)
- Digital Audio 7.1 Surround Sound
- HD Audio over 3.5mm Headset Jack
- Speaker/TOSLink Optical Jack
- Multi-color Front panel power button
- Consumer IR receiver
- 3 Programmable LEDs on front.
- Kensington lock support
- 19V DC Jack (230 watt power adapter)

Customization

- Two DDR4-2400 SO-DIMM Sockets
- Two M.2 2280 Sockets (PCIe or SATA)
- Supports functional Lids (planned)
- Multi-color front panel LEDs
- Selectable-color Skull emblem on top



Simply NUC Services

You can order this NUC in your various configurations, as well as your corporate OS Image loaded and ready to deploy.

Technical Specifications

Processor

- Intel® i7-8705G processor (3.1 GHz to 4.1 GHz Turbo, Quad Core, 8MB Cache, 65W)

Storage Capabilities

- Two 2280 M.2 slots
- One M.2 slot supports 2242
- M.2 supports both PCIe and SATA
- SDXC slot with UHS-I support

Audio

- Up to 7.1 surround audio via HDMI or mDP ports
- Stereo Headset jack (TRRS) on the front panel
- Quad-array microphones on the front panel
- Combo speaker/TOSLink optical Audio jack on the back panel

Hardware Management Features

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

Graphics

- AMD Radeon RX Vega M GL 4GB HBM2 graphics memory
- Two HDMI 2.0b ports (4K @ 60Hz)
- Two mDP 1.2 ports (supports MST)
- Two Thunderbolt 3 (Alt-DP mode)
- Up to 6 displays (4x 4k + 2x 1080p)
- HDCP 2.2 on all ports

Peripheral Connectivity

- Two Intel® Gigabit LAN ports i219-LM and i210-AT
- Five Super-Speed USB 3.0 ports on Type-A connectors (four back panel ports and one on front panel which supports charging port)
- Four USB 3.1 Gen 2 ports, three on Type-C connectors and one on Type-A connector
- Intel® Dual Band Wireless-AC 8265 (802.11ac), 2x2, up to 867 Mbps
- Dual Mode Bluetooth 4.2

Front Panel Header

- Reset, HDD LED, Power LEDs, power on/off

System Memory

- Two DDR4-2400 SO-DIMM sockets (8GB supplied as standard, 64GB Max), 1.2V

System Bios

- 64 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

Baseboard Power Requirements

- 19V, 230W laptop-style AC-DC power adapter

Mechanical Chassis Size

- 8.7" x 5.6" x 1.54"
- 221 mm x 142 mm x 39 mm

Expansion Capabilities (under Lid)

- Internal dual USB 3.0 header
- Internal dual USB 2.0 header with Front Panel Header signals, CEC and a Reset output
- SATA power connector

Certification and Regulations

Product Safety Regulations and Standards

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

Environment Operating Temp

- 0° C to +40° C
- Non-condensing Humidity

Storage Temperature

- -20° C to +60° C

EMC/RF Regulations and Standards (Class B)

- CISPR 32
- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- ICES-003
- EN 55032
- 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-2, V-3, V-4
- KN-32
- KN-24
- CNS 13438

Environmental Regulations

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS

Certified Operating Systems

- Windows 10 64-bit (Pro & Home)
- Windows 10 IoT Enterprise - (64-bit only) CBB and LTSB
- Windows Server 2016