NUC8i7BEH - Quad-Core i7 Tall Chassis

Who said small isn't powerful?

The Simply NUC8i7BEH is able to run multiple applications simultaneously including massive spreadsheets, documents, presentations, and any other small home or office needs you might have as well as streaming video, showing off slideshows, and even voice interaction using Cortana. All of this in a small 4" x 4" x 2" sized package which can mount behind your monitor or be unobtrusively located in plain sight due to its small size. And the active cooling system adjusts as needed to provide quiet during light loads where it isn't needed as much, and barely audible cooling when more is needed.

The Simply NUC8i7BEH is built with an 8th generation Intel® Core™ i7 processor to give you the performance to handle anything you throw at it, and it is also Intel® Optane™ Memory ready which makes you ready for the future. By easily installing and pairing Intel Optane Memory with high capacity HDD storage media, you get amazing performance and responsiveness as well as shorter boot times, faster application launches, and more responsive browsing.

The Simply NUC8i7BEH also has room for up to a 2TB HDD, or 4TB SSD so you have the room to store and backup all your files.

New features let you use Windows® 10 to its full potential

The Simply NUC8i7BEH has some cool new features including dual-array front microphones so you can take advantage of Cortana's capabilities if you include Windows® 10 with no additional hardware needed. There's also a front power button and a multi-color LED so you can personalize the NUC with the look you want, along with 7.1 surround sound via HDMI or USB-C/DisplayPort to deeply immerse you in your content. You can also listen with headphones via the front microphone/audio jack. The choice is yours.

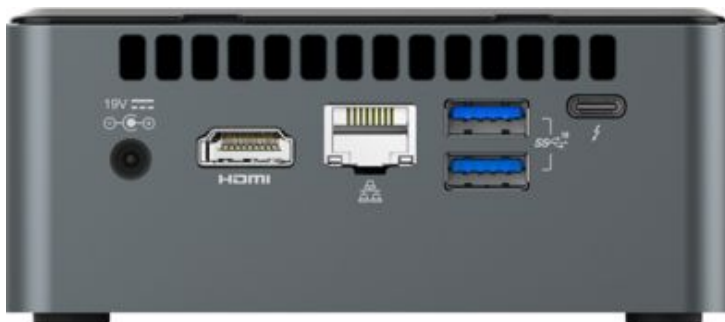### Cut the cords, not the Performance

The Simply NUC8i7BEH 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 5, you can connect wireless peripherals like headsets and keyboards.

Highlighted features

- 8th Gen Intel® Core™ i7
- Intel® Iris™ Plus Graphics 655
- 4GB DDR4 (64GB Max)
- 128GB M.2 SSD (2TB Max)
- Intel® Optane™ Memory ready
- MicroSDXC card slot (UHS-I)
- HDMI 2.0a supporting 4K @ 60Hz
- Thunderbolt 3 (supports Alt-DP)
- Intel® Gigabit LAN
- Intel® Dual Band (Gb) Wireless
- Intel® Bluetooth 5
- Five USB 3.1 Gen 2 Ports (10Gb/s) (one charging)
- Digital Audio 7.1 Surround Sound
- Far-field dual-array microphone
- Internal Dual-Band Antennas
- Consumer IR receiver
- Kensington lock support
- 19V DC Jack (12-19V operation)
- VESA Mount Kit

Customization

- Two DDR4 SO-DIMM Sockets
- M.2 slot supports PCI or SATA SSDs
- 2.5" SATA drive bay
- Two USB 2.0 headers

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® Core™ i7-8559U processor (2.7 GHz with 4.5GHz Turbo, Quad Core, Hyper-thread, 8 MB Cache, 28W TDP)

Storage Capabilities
- 128GB M.2 SATA pre-installed.
- One M.2 socket supporting 22x42 or 22x80 M.2 SSDs, SATA or PCIe, 2TB SATA or PCIe SSD Max.
- Intel® Optane™ Memory ready.
- One SATA 3 port for connection to 2.5" HDD or SSD up to 9.5mm thick (4TB SSD or 2TB HDD Max)

Audio
- Up to 7.1 surround audio via HDMI
- Front headset jack
- Dual-array far-field beam-forming microphones in front panel

Hardware Management Features
- Intel Platform Trust Technology
- Voltage and temperature sensing
- ACPI-compliant power management control
- Processor fan speed control
- Fan sensor inputs used to monitor fan activity

Graphics
- Intel® Iris™ Plus Graphics 655
- One HDMI 2.0a port
- USB Type-C port with DisplayPort

Peripheral Connectivity
- Intel® Gigabit LAN i219-V
- Four USB 3.1 Gen2 Type-A ports (two back; two front)
- One USB 3.1 Gen2 Type-C port (back panel)
- Two additional Hi-Speed USB 2.0 ports via internal header
- Intel® Dual Band Wireless-AC 9560 (802.11ac), 2x2, up to 1.73 Gbps
- Bluetooth 5
- Thunderbolt 3 on USB Type-C port
- Consumer infrared receiver on front

Baseboard Power Requirements
- 19V, 90W AC-DC power adapter with detachable power cord.
- 12-19V DC input range
- International cords available

Mechanical Chassis Size
- 4.6" x 4.4" x 2.0"
- 117 x 112 x 51 mm

System Memory
- 4GB DDR4-2400 pre-installed.
- Two DDR4 SO-DIMM sockets, 32GB 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

Front Panel Header
- Reset, HDD LED, Power LEDs, power on/off

Expansion Capabilities
- Two USB 2.0 ports on two 1x4 headers
- 2.5in drive bay for SATA drive
- Functional or decorative lid support

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 +50° C
- Non-condensing Humidity

Storage Temperature
- -40° C to +60° C

EMC/RF Regulations and Standards (Class B)
- CISPR 52
- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- ICES-005
- EN 55052
- ETSI EN 500 528
- ETSI EN 501 489-17
- EN 62511
- AS/NZS 2772.2
- VCCI V-2, V-5, V-4
- KN-52
- CNS 15458
- EN 55024
- ETSI EN 501 489-1
- ETSI EN 501 895
- AS/NZS 4268
- KN-24

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
- Various Linux including: Ubuntu, Mint, openSUSE, etc (Contact Simply NUC for specifics)