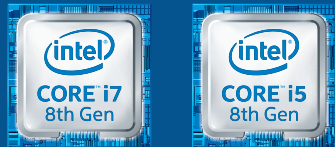




Product Brief: Intel® NUC Mini PCs

# INTEL® NUC 8 HOME

## NUC8i7BEKQA & NUC8i5BEKPA



The Shape that Fits the Future.



# INTEL® NUC: READY TO GO OUT-OF-THE-BOX

Get ready for spectacularly responsive performance from Intel® NUC Mini PCs with 8th gen Intel® Core™ processors and Windows® 10. Edit photos, stream media, or set up a second PC, whatever the task, whatever the use, the Intel® NUC8i7BEKQA and NUC8i5BEKPA Mini PCs deliver powerful features—in a size that fits easily into any lifestyle and any room in the house.

## The first Intel NUC Mini PCs with quad-core 8th generation Intel® Core™ processors

The NUC8i7BEKQA and NUC8i5BEKPA Mini PCs with true quad-core 8th gen Intel Core processors deliver a big jump in performance compared to previous generations. Whether creating content, looking at photos with 4K UHD graphics, or playing games, these tiny, complete Mini PCs have great visual immersion with Iris® Plus Graphics 655 and the unprecedented performance of Intel Core processors. And both Mini PCs come with dual-channel DDR4-RAM preinstalled: 16 GB on the NUC8i7BEKQA and 8 GB on the NUC8i5BEKPA.

## Solid State Drives equal solid reliability

The NUC8i7BEKQA has an 8th gen Intel® Core™ i7 processor and Iris Plus graphics, and 512 GB Intel® SSD drive to punch out your next big gaming win. The NUC8i5BEKPA comes with an 8th gen Intel® Core™ i5 processor and Iris Plus graphics, and a 256 GB Intel SSD drive, perfect for serving files screamingly fast. And because the drives have no moving parts the failure rate is lower and there is less chance of data loss.

## With Thunderbolt™ 3 plus USB 3.1 for fast data transfer

The Intel NUC Mini PC chassis are connectivity powerhouses. Both come with Thunderbolt™ 3 which supports up to 40 Gbps of data transfer, and four USB 3.1 ports to bolster productivity for moving big media files around and providing room for peripherals. There's an HDMI\* 2.0a port for 4K displays, and DisplayPort\* 1.2 via USB-C. With the ability to have triple displays all in 4K Ultra HD, photos, videos, and streaming media are picture perfect.

## Think you know what small can do? Think again.

In a footprint that's almost zero—especially when compared with a tower—these Mini PCs have the performance and features of a desktop PC in a device that fits in the palm of your hand. The small size means they can be positioned almost anywhere—from behind a display to tucked discretely in an entertainment center. And with improved cooling, fan noise is minimal—which means a quieter experience no matter where the Intel NUC is located.

## The Intel® NUC: who says small isn't powerful?

# POWER, CAPABILITIES, AND PERFORMANCE IN A NEAR-ZERO FOOTPRINT

## NUC8i7BEKQA & NUC8i5BEKPA Highlighted Features

- Windows® 10 Home
- Iris® Plus graphics 655
- Intel® Dual Band Wireless-AC 9560 and Bluetooth\* 5.0
- Back panel DC power connector (12–19V)
- HDMI\* 2.0a display port supporting 8 channel audio (7.1 surround sound)
- Intel® Gigabit LAN
- Two USB 3.1 ports on the back panel
- Thunderbolt™ 3 USB Type-C port providing DisplayPort\* 1.2 or USB 3.1 Gen 2
- Kensington lock support
- Support for user-replaceable third-party lids
- Micro SD card slot
- Consumer infrared sensor
- Two USB 3.1 ports (including one charging port) on the front panel
- Front panel headphone/microphone jack
- Front panel power button
- Dual-array front microphones

## NUC8i7BEKQA Unique Features

- 8th gen Intel® Core™ i7-8559U processor
- 16 GB DDR4 dual-channel SO-DIMM
- 512 GB NVMe SSD

## NUC8i5BEKPA Unique Features

- 8th gen Intel® Core™ i5-8259U processor
- 8 GB DDR4 dual-channel SO-DIMM
- 256 GB NVMe SSD



# INTEL® NUC KIT NUC8i7BEKQA & NUC8i5BEKPA

## Technical Specifications

### Processor

#### NUC8i7BEKQA

- Intel® Core™ i7-8559U processor (2.7-4.5 GHz, quad core, 8 MB cache, 28W TDP)

#### NUC8i5BEKPA

- Intel® Core™ i5-8259U processor (2.3-3.8 GHz, quad core, 6 MB cache, 28W TDP)

### Operating System

- Windows® 10 Home

### Graphics

- Iris® Plus Graphics 655
- HDMI\* 2.0a port with 4K at 60 Hz
- USB Type-C port with DisplayPort\* 1.2

### System Memory

#### NUC8i7BEKQA

- 16 GB DDR4-2400 dual-channel SO-DIMM (expandable to 32 GB), 1.2V

#### NUC8i5BEKPA

- 8 GB DDR4-2400 dual-channel SO-DIMM (expandable to 32 GB), 1.2V

### Storage Capabilities

- Micro SDXC slot with UHS-I support on the side

#### NUC8i7BEKQA

- 512 GB NVMe SSD

#### NUC8i5BEKPA

- 256 GB NVMe SSD

### Peripheral Connectivity

- Intel® Gigabit LAN port
- Thunderbolt™ 3 port
- Four USB 3.1 ports (two back panel ports and two front ports including one charging port)
- Intel® Dual Band Wireless-AC 9560 (802.11ac), 2x2, up to 1.73 Gbps
- Dual Mode Bluetooth\* 5.0

### 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

### 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 Internal USB 2.0 ports via two 1x4 headers (for replaceable lid support)
- One Consumer Electronics Control header

### Audio

- Up to 7.1 surround audio via HDMI\*
- Headphone/microphone jack on the front panel
- Dual-array microphones on the front panel

### Front Panel Header

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

### Mechanical Chassis Size

- 4.60" x 4.40" x 1.41"
- 117 mm x 112 mm x 36 mm

### Baseboard Power Requirements

- 19V, 90W power brick

### Environment Operating Temperature

- 0° C to +35° C

### Storage Temperature

- 20° C to +40° 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

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