



Intel® NUC Kit NUC8i3BEH

 Add to Compare

Specifications

Essentials

- Supplemental Information
- Memory & Storage
- Processor Graphics
- Expansion Options
- I/O Specifications
- Package Specifications
- Advanced Technologies
- Security & Reliability

Ordering and Compliance

Compatible Products

Drivers and Software

Technical Documentation

Essentials

Export specifications

Product Collection	Intel® NUC Kit with 8th Generation Intel® Core™ Processors
Code Name	Products formerly BEAN CANYON
Status	Launched
Launch Date	Q3'18
Supported Operating Systems	Windows 10, 64-bit*
Board Number	NUC8BEB
Board Form Factor	UCFF (4" x 4")
Socket	Soldered-down BGA
Internal Drive Form Factor	M.2 and 2.5" Drive
# of Internal Drives Supported	2
Lithography	14 nm
TDP	28 W
DC Input Voltage Supported	12-19 VDC
Processor Included	Intel® Core™ i3-8109U Processor (4M Cache, up to 3.60 GHz)
Intel vPro® Platform Eligibility †	No
# of Cores	2
# of Threads	4
Processor Base Frequency	3.00 GHz
Max Turbo Frequency	3.60 GHz
Warranty Period	3 yrs
Recommended Customer Price	-

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now
Description	Other features: Includes Thunderbolt 3 (40Gbps) USB 3.1 Gen 2 (10Gbps) and DP 1.2 via USB-C; also includes microSDXC card slot, dual microphones
Product Brief	View now

Memory & Storage

Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR4-2400 1.2V SO-DIMM
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	38.4 GB/s
Max # of DIMMs ?	2
ECC Memory Supported † ?	No

Processor Graphics

Processor Graphics † ?	Intel® Iris® Plus Graphics 655
Integrated Graphics † ?	Yes
Graphics Output ?	HDMI 2.0a; USB-C (DP1.2)
# of Displays Supported †	3

Expansion Options

PCI Express Revision ?	Gen3
PCI Express Configurations † ?	M.2 slot with PCIe X4 lanes
Removable Memory Card Slot ?	microSDXC with UHS-I support
M.2 Card Slot (storage) ?	22x42/80

I/O Specifications

# of USB Ports	6
USB Configuration	2x front and 3x rear USB 3.1 Gen2; 2x USB 2.0 via internal headers
USB Revision ?	2.0, 3.1 Gen2
USB 2.0 Configuration (External + Internal)	0 + 2
USB 3.0 Configuration (External + Internal)	2B 2F + 0
Total # of SATA Ports ?	2
Max # of SATA 6.0 Gb/s Ports	2
RAID Configuration ?	2.5" HDD/SSD + M.2 SATA SSD (RAID-0 RAID-1)
Audio (back channel + front channel)	7.1 digital (HDMI mDP); L+R mic (F)
Integrated LAN ?	Intel® Ethernet Connection I219-V
Integrated Wireless†	Intel® Wireless-AC 9560 + Bluetooth 5.0
Integrated Bluetooth	Yes
Consumer Infrared Rx Sensor ?	Yes

of Thunderbolt™ 3 Ports

1

Package Specifications

Chassis Dimensions

117 x 112 x 51mm

Advanced Technologies

Intel® Optane™ Memory Supported ‡

Yes

Intel® Virtualization Technology for Directed I/O (VT-d) ‡

Yes

Intel vPro® Platform Eligibility ‡

No

TPM

No

Intel® HD Audio Technology

Yes

Intel® Rapid Storage Technology

Yes

Intel® Virtualization Technology (VT-x) ‡

Yes

Intel® Platform Trust Technology (Intel® PTT)

Yes

Security & Reliability

Intel® AES New Instructions

Yes

More support options for Intel® NUC Kit NUC8i3BEH

[Product Support](#)[Downloads and Software](#)[Support Community](#)[Warranty and Replacement](#)

Need more help?

[Contact support](#)[Give Feedback](#)

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

[Company Information](#) [Our Commitment](#) [Communities](#) [Investor Relations](#) [Contact Us](#) [Newsroom](#)

[Jobs](#)



[© Intel Corporation](#) | [Terms of Use](#) | [*Trademarks](#) | [Privacy](#) | [Cookies](#) | [Supply Chain Transparency](#) | [Site Map](#)

