



Intel® NUC Kit NUC8i7HVK

Specifications

Export specifications

Essentials

Product Collection	Intel® NUC Kit with 8th Generation Intel® Core™ Processors		
Code Name	Products formerly HADES CANYON		
Status	Discontinued		
Launch Date	Q1'18		
Supported Operating Systems	Windows 10, 64-bit*, Windows Server 2016*		
Board Number	NUC8i7HVB		
Board Form Factor	UCFF (5.5" x 8")		
Socket	Soldered-down BGA		
Internal Drive Form Factor	M.2 SSD		
# of Internal Drives Supported	2		
Lithography	14 nm		
TDP	100 W		
DC Input Voltage Supported	19 VDC		
Board Chipset	Mobile Intel® HM175 Chipset		
Processor Included	Intel® Core™ i7-8809G Processor with Radeon™ RX Vega M GH graphics (8M Cache, up to 4.20 GHz)		
Intel vPro® Platform Eligibility †	No		
# of Cores	4		
# of Threads	8		
Processor Base Frequency	3.10 GHz		
Max Turbo Frequency	4.20 GHz		
Warranty Period	3 yrs		

Recommended Customer Price

\$901.15 - \$903.62

Supplemental Information

Embedded Options Available

No

Datasheet

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Description

Other features: Includes 2x Thunderbolt 3 (40Gbps) via rear USB-C ports, SDXC card slot and front USB-A and USB-C ports w/ USB 3.1 Gen 2

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® HD Graphics 630

Integrated Graphics ‡

Yes

Graphics Output

2x Mini-DP 1.2, 2x Thunderbolt 3, F+R HDMI 2.0a

of Displays Supported ‡

6

Discrete Graphics

Radeon™ RX Vega M GH graphics

Expansion Options

PCI Express Revision

Gen3

PCI Express Configurations ‡

Dual M.2 slots with PCIe x4 lanes

Removable Memory Card Slot

SDXC with UHS-I support

M.2 Card Slot (wireless)

2230

M.2 Card Slot (storage)

22x42/80, 22x80

I/O Specifications

of USB Ports

13

USB Configuration

F: USB3, 2x USB 3.1g2 (Type A and C); R: 4x USB3, 2x Thunderbolt3 (USB3.1g2); INT: 2x USB2, 2x USB3

USB Revision

2.0, 3.0, 3.1 Gen2

USB 2.0 Configuration (External + Internal)	0 + 2
USB 3.0 Configuration (External + Internal)	1F, 4R, 2i
Total # of SATA Ports	2
Max # of SATA 6.0 Gb/s Ports	2
RAID Configuration	2x M.2 SATA/PCIe SSD (RAID-0 RAID-1)
Audio (back channel + front channel)	7.1 digital; L+R+mic (F); L+R+TOSLINK (R)
Integrated LAN	Intel® Ethernet Connection i219-LM and i210-AT
Integrated Wireless [‡]	Intel® Wireless-AC 8265 + Bluetooth 4.2
Integrated Bluetooth	Yes
Consumer Infrared Rx Sensor	Yes
S/PDIF Out Connector	TOSLINK
Additional Headers	CEC, 2x USB2.0, 2x USB 3.0, FRONT_PANEL
# of Thunderbolt™ Ports	2x Thunderbolt™ 3

Package Specifications

Chassis Dimensions	221 x 142 x 39mm
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Advanced Technologies

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
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Drivers and Software

Technical Documentation

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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 vary depending on system configuration.

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.

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