ARK | Compare Intel® Products	
12/9/2020 10:10	
	Intel® NUC Kit NUC8i7BEH ()
Essentials	
Product Collection	Intel® NUC Kit with 8th Generation Intel® Core™ Processors
Code Name	Products formerly BEAN CANYON
Status	Discontinued
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™ i7-8559U Processor (8M Cache, up to 4.50 GHz)
Intel vPro® Platform Eligibility ‡	No
# of Cores	4
# of Threads	8
Processor Base Frequency	2.70 GHz
Max Turbo Frequency	4.50 GHz
Warranty Period	3 yrs
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
Additional Headers	CEC, 2x USB2.0, FRONT_PANEL
# of Thunderbolt™ Ports	1x Thunderbolt™ 3
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