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Intel® NUC Board NUC7i7DNBE

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Essentials

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Product Collection	Intel® NUC Board with 8th Generation Intel® Core™ Processors
Code Name	Products formerly Dawson Canyon
Status	Launched
Launch Date ?	Q1'18
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
TDP ?	15 W
DC Input Voltage Supported	12-24 VDC
Recommended Customer Price ?	
Processor Included	Intel® Core™ i7-8650U Processor (8M Cache, up to 4.20 GHz)
Warranty Period	3 yrs

Supplemental Information

Embedded Options Available ?	Yes
Description	8th Gen Commercial Intel® NUC

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 # of DIMMs ?	2
ECC Memory Supported ‡ ?	No

Processor Graphics

Integrated Graphics ‡ ?	Yes
Graphics Output ?	Dual HDMI 2.0a, 4-lane eDP 1.4
# of Displays Supported ‡ ?	3

Expansion Options

PCI Express Revision ?	Gen 3

Specifications

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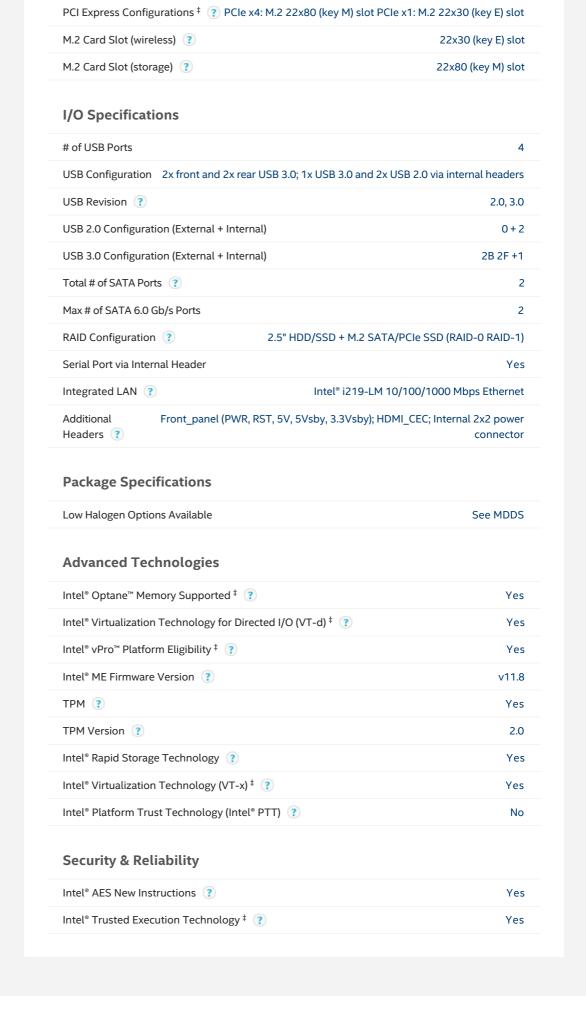Expansion Options
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PCI Express Configurations ‡ ?	PCIe x4: M.2 22x80 (key M) slot PCIe x1: M.2 22x30 (key E) slot
M.2 Card Slot (wireless) ?	22x30 (key E) slot
M.2 Card Slot (storage) ?	22x80 (key M) slot

I/O Specifications

# of USB Ports	4
USB Configuration	2x front and 2x rear USB 3.0; 1x USB 3.0 and 2x USB 2.0 via internal headers
USB Revision ?	2.0, 3.0
USB 2.0 Configuration (External + Internal)	0 + 2
USB 3.0 Configuration (External + Internal)	2B 2F +1
Total # of SATA Ports ?	2
Max # of SATA 6.0 Gb/s Ports	2
RAID Configuration ?	2.5" HDD/SSD + M.2 SATA/PCIe SSD (RAID-0 RAID-1)
Serial Port via Internal Header	Yes
Integrated LAN ?	Intel® i219-LM 10/100/1000 Mbps Ethernet
Additional Headers ?	Front_panel (PWR, RST, 5V, 5Vsby, 3.3Vsby); HDMI_CEC; Internal 2x2 power connector

Package Specifications

Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Optane™ Memory Supported ‡ ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Yes
Intel® vPro™ Platform Eligibility ‡ ?	Yes
Intel® ME Firmware Version ?	v11.8
TPM ?	Yes
TPM Version ?	2.0
Intel® Rapid Storage Technology ?	Yes
Intel® Virtualization Technology (VT-x) ‡ ?	Yes
Intel® Platform Trust Technology (Intel® PTT) ?	No

Security & Reliability

Intel® AES New Instructions ?	Yes
Intel® Trusted Execution Technology ‡ ?	Yes

More support options for Intel® NUC Board NUC7i7DNBE

Product Support

Downloads and Software

Support Community

Warranty and Replacement

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

"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.

‡ 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.

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

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

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