☰

USA (English) 🌐 👤 🔍

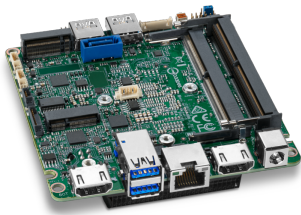# Intel® NUC Board NUC7i7DNBE

☐ Add to Compare   From $617.¹⁶

Technical Specifications

Technical Specifications

Essentials

Status	Launched
Product Collection	Intel® NUC Board with 8th Generation Intel® Core™ Processors
Launch Date ⓘ	Q1'18
Supported Operating Systems	Windows 10, 64-bit*, Windows 10 IoT Enterprise*, Windows Server 2016*
Board Number	NUC7i7DNB

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 ❶	15 W
DC Input Voltage Supported	12-24 VDC
Processor Included	Intel® Core™ i7-8650U Processor
Warranty Period	3 yrs

Supplemental Information

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

Memory & Storage

Max Memory Size (dependent on memory type) ❶	32 GB
	Memory Types ❶

DDR4-2400 1.2V SO-DIMM

Max # of Memory Channels ❶	2
Max # of DIMMs ❶	2
ECC Memory Supported [‡] ❶	No

Processor Graphics [‡] ❶	Intel® UHD Graphics 620

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
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 ❶   Intel® i219-LM 10/100/1000Mbps Ethernet

Additional Headers ❶   Front_panel (PWR, RST, 5V, 5Vsby, 3.3Vsby);
                                                           HDMI_CEC; Internal 2x2 power connector

Advanced Technologies

Intel® Optane™ Memory Supported ‡ ❶   Yes

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

Intel® vPro™ Platform Eligibility ‡ ❶   Yes

Intel® ME Firmware Version ❶   v11.8

TPM ❶   Yes

TPM Version ❶   2.0

Intel® Rapid Storage Technology ❶   Yes

Intel® Virtualization Technology (VT-x) ‡ ❶   Yes

Intel® Platform Trust Technology (Intel® PTT)   No
❶

Security & Reliability

Intel® AES New Instructions ❶   Yes

Intel® Trusted Execution Technology ‡ ❶   Yes

Drivers and Downloads

USA (English)

Intel® Graphics - Windows® 10 DCH Drivers for Intel® NUC

Date: 04/18/2020
Version: 26.20.100.8141 (Latest)
OS: Windows 10, 64-bit*

BIOS Update [DNKBLi7v.86A]

Date: 03/12/2020
Version: 0068 (Latest)
OS: OS Independent, Windows 10, 64-bit*

HDMI Firmware Update Tool for NUC7i3DN, NUC7i5DN, NUC7i7DN

Date: 02/15/2020
Version: 1.76 (Latest)
OS: Windows 10, 64-bit*

Intel® Integrator Toolkit

Date: 01/22/2020
Version: 6.1.10 (Latest)
OS: OS Independent

Intel® Management Engine Corporate Driver for Windows® 10 64-bit for Intel® NUC

Date: 01/15/2020
Version: 1950.14.0.1443 (Latest)
OS: Windows 10, 64-bit*

Intel® Wireless Bluetooth® Driver for Windows® 10 64-bit for Intel® NUC

Date: 11/13/2019
Version: 21.50.0 (Latest)
OS: Windows 10, 64-bit*

Intel® Gigabit Ethernet Network Connection Driver for Windows® 10 for Intel® NUC

Date: 11/13/2019
Version: 24.3 (Latest)
OS: Windows 10, 64-bit*

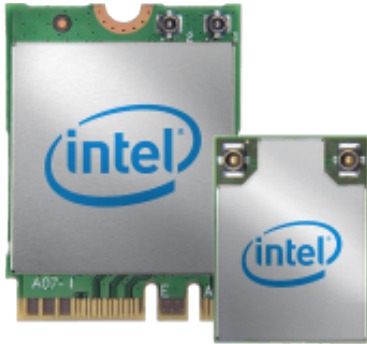# Intel® Rapid Storage Technology (RAID) with Intel® Optane™ Technology for Intel® NUC

Date: 11/13/2019
Version: 17.5.1.1021 (Latest)
OS: OS Independent, Windows 10, 64-bit*

☰
Related Products and Technologies

USA (English) 🌐 👤 🔍

Related Products and Technologies

Intel® Dual Band Wireless-AC 8265

The Intel® Dual Band Wireless-AC 8265 adapter supports Bluetooth® technology 4.2 and 2x2 11ac Wi-Fi delivering up to 867 Mbps,[1] providing up to 3x increase in user speeds in dense deployments.

Learn more about Intel® Dual Band Wireless-AC 8265

Intel vPro® Technology

Streamline productivity with performance for serious business compute, get in front of security threats with hardware-enhanced identity protection, and put time back in the bank with remote manageability.

Learn more about Intel vPro® technology

Intel Unite® Solution

Here's to meetings that start without calls to IT, an extensible platform that streamlines existing tools, and intelligent spaces that make
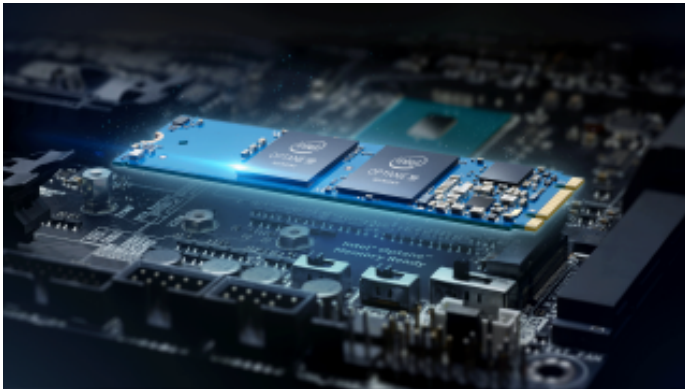

Intel® HD Graphics 620

Immerse yourself in vivid entertainment with the brilliance of Intel® Graphics Technology.

workplace transformation scalable.

Experience smarter, connected meetings

Discover Intel® Graphics Technology

USA (English)

Intel® Optane™ Memory Ready

Intel® Optane™ memory is a new revolutionary technology that affordably accelerates your system, delivering high speed and responsiveness without compromising system storage capacity.

Learn about Intel® Optane™ memory

Replaceable Lids

Customize and expand the functionality of your Intel® NUC with replaceable lids. Available now for 5th and 6th generation NUCs.

Explore featured lids
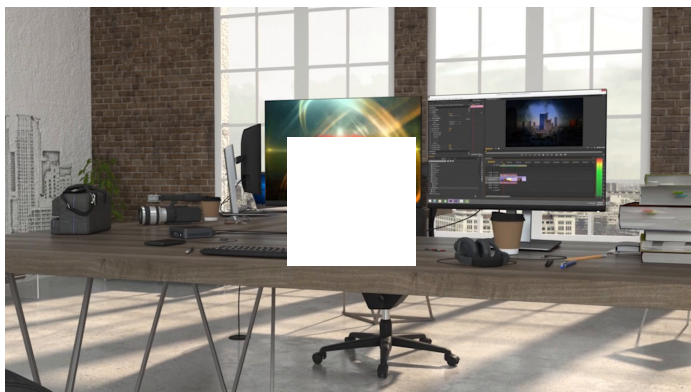
Related Videos

Introducing the Intel® NUC (1:22)

Why Choose the Intel® NUC
 (1:00)

Small but powerful mini PC is designed for vivid entertainment and gaming, digital signage, and the workplace.

Find out why the Intel® NUC, with maximized performance in a small footprint, is the right choice.

Intel® NUC for Business (0:41)

Designed for innovation in a small space and Windows* 10, the Intel® NUC gets more done in the workplace.

Intel® NUC Solutions (0:47)

Deliver brilliant 4K digital signage and other solutions with the flexible, remotely manageable Intel® NUC.

Related Materials

Related Materials

Brief: Intel® NUC Kits NUC7i5DNKE and NUC7i5DNHE

Support

Support

 Product support

 Tested components and peripherals

 System memory

 Downloads software and drivers

Intel® NUC chassis ecosystem catalog

Support Community
USA (English)

Request an Intel® NUC sample

Intel® NUC recycling program

Product and Performance Information

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.

[1] Based on the theoretical maximum bandwidth enabled by 2x2 802.11ac implementations. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware, and software configurations. Check with your PC manufacturer for details.

Company Information

Our Commitment

Communities

Investor Relations

Contact Us

Newsroom

Jobs

© Intel Corporation

*Trademarks

Cookies

Site Map

Terms of Use

Privacy

Supply Chain Transparency