Product Brief

INTEL® NUC KITS
NUC7i5DNKE & NUC7i5DNHE

INTEL® NUC BOARD
NUC7i5DNBE

- Intel® vPro™ Technology
- Intel® Optane™ Memory Ready¹,²
- Intel® Remote Secure Erase³
- 4K60 Display Capability

The Shape that Fits the Future.
Built for Business, Powered for success

Your clients want the features and performance to tackle demanding tasks, display eye-catching visuals, and keep data safe and the Intel® NUC Kits NUC7i5DNKE and NUC7i5DNHE built with 7th generation Intel® Core™ i5 vPro™ processors deliver the performance and innovation for small space and embedded solutions that your clients want. Whether you’re creating a digital kiosk, deploying intelligent vending, or refreshing enterprise PCs, the Intel NUC7i5DNKE and NUC7i5DNHE can get the job done easily. With Intel® Wireless 8265-AC and the option to run Windows® 10 or Linux® or another OS, the NUC7i5DNKE and NUC7i5DNHE deliver the flexibility to build the exact solution your clients want.

The slightly taller Intel NUC7i5DNHE is Intel® Optane™ memory ready. By pairing Intel Optane memory with high capacity HDD storage media, performance increases 14 times faster than just a hard disk drive alone—exactly what customers want for digital kiosks that are streaming content or enterprise solutions where clients are connecting to cloud-based apps. Intel NUC7i5DNHE has room for up to a 2 TB 2.5” HDD, so clients can store data or sensitive files locally. This kit also has an M.2 slot available for a lightning fast SSD. In addition, there’s also an internal expansion area on the back of the chassis to encourage your innovation. Create a system with a DB9 connection for serial ports or build out internal expandability for 10/100 GbE—the possibilities are only limited by your imagination. The slimmer Intel NUC7i5DNKE makes it perfect for mounting in tight locations—on a wall behind a digital sign or on the display itself.

New features let you customize any way you want

Both the Intel NUC7i5DNKE and NUC7i5DNHE have some new features including a USB 3.0 on the internal header, in addition to 4 USB 3.0 ports on the chassis. For the first time, the commercial kits also come with two full-sized HDMI® 2.0a ports to power brilliant 4K displays at 60 Hz. Suddenly your clients’ digital kiosks and intelligent vending machines have images that really pop and draw people in. The power button is now located on the front panel for easy on/off no matter where you locate the Intel NUC.

From kiosks to intelligent vending: build embedded solutions with the Intel® NUC board NUC7i5DNBE

The Intel® NUC board NUC7i5DNBE enables infinite flexibility and expandability depending on your customers’ needs. The board includes a 4-lane eDP connector that allows you to create interactive touch systems perfect for digital signage, casino gaming, or intelligent vending. The NUC7i5DNBE board also has an internal power connector with a 12-24 volt input range so your systems stay up and running no matter the fluctuation in power. The board ships without a wireless card so you can choose what’s best for the solution you’re building.
POWER, CAPABILITIES, AND PERFORMANCE IN FOUR INCHES SQUARE

Highlighted Features

1. 7th generation Intel® Core™ i5-7300U processor with Intel® vPro™ technology
2. Intel® HD Graphics 620
3. 4-lane eDP 1.4 connector (NUC7i5DNBE only)
4. Internal 2x2 power connector, 12-24V (NUC7i5DNBE only)
5. Two M.2 connectors (22x80 and 22x30)
6. One USB 3.0 internal header
7. Two USB 2.0 internal headers
8. Intel® Trusted Platform Module (TPM)
9. Two DDR4 SO-DIMM sockets (up to 32 GB, 2133 MHz)
10. Intel® Optane™ memory ready (NUC7i5DNHE only)
11. Intel® Wireless-AC 8265 and Bluetooth® 4.2 (installed in the 22x30 M.2 slot)
12. 1x SATA3 port for connection to 2.5" HDD or SSD (NUC7i5DNHE only)
13. Kensington lock support
14. Support for user-replaceable third-party lids
15. Two USB 3.0 ports
16. Front panel power button
17. Back panel DC power connector (12–19V)
18. Two full-size HDMI* 2.0a display ports supporting 8 channel audio (7.1 surround sound)
19. Intel® Gigabit LAN
20. Two USB 3.0 ports on the back panel
21. Backpanel opening with DB9 bracket
Technical Specifications

Processor
- Intel® Core™ i5-7300U processor (2.64 GHz to 3.5 GHz Turbo, Dual-Core 3MB cache, 15W TDP)

Graphics
- Intel® HD Graphics 620
- Two HDMI® 2.0a ports supporting 4K at 60 Hz

System Memory
- Two DDR4 SO-DIMM sockets (up to 32 GB, 2,133 MHz, 1.2V)

Storage Capabilities
- One M.2 connector supporting 22x30 M.2 SSD (NUC7i5DNBE Only)
- One M.2 connector supporting 22x80 M.2 SSD (NUC7i5DNHE Only)

Peripheral Connectivity
- Intel® Gigabit LAN
- Four USB 3.0 ports (two back panel ports and two front ports)
- One additional USB 3.0 port via internal header
- One SATA3 port for connection to 2.5" HDD or SSD (up to 9.5 mm thickness) (NUC7i5DNHE Only)

Expansion Capabilities
- One M.2 connector supporting 22x30 M.2 card (NUC7i5DNBE Only)
- One SATA3 port for connection to 2.5" HDD or SSD (up to 9.5 mm thickness) (NUC7i5DNHE Only)

Audio
- Up to 7.1 surround audio via HDMI

Front Panel Header
- Reset, HDD LED, Power LEDs, power on/off

System BIOS
- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface
- Intel® Visual BIOS
- Intel® Express BIOS update support

Hardware Management Features
- Processor fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

Expansion Capabilities
- One internal USB 3.0 ports
- Two internal USB 2.0 ports
- RS252
- HDMI CEC header

Mechanical Chassis Size
NUC7i5DNHE
- 4.55" x 4.57" x 2.01"
- 115 mm x 111 mm x 52 mm

NUC7i5DNBE
- 4.0" x 4.0"
- 102 mm x 102 mm

Baseboard Power Requirements
- 19V, 65W wall-mount AC-DC power adapter
- Internal 2x2 power connector, 12-24V (NUC7i5DNBE)

Environmental Operating Temperature
- 0°C to +40°C

Storage Temperature
- -20°C to +60°C

Product Safety Regulations and Standards
- IEC 60950-1
- EN 62511
- ETSI EN 501 489-1
- ETSI EN 501 489-17
- ETSI EN 501 895
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- KC-V-1, V-5, V-4
- KN-52
- KN-24
- CNS 15458

Environmental Regulations
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS - Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

CISPR Regulations and Standards (Class B)
- CISPR 52
- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- ICES-005
- EN 55052
- EN 55024
- ETSI EN 500 528
- ETSI EN 501 489-1
- ETSI EN 501 489-17
- ETSI EN 501 895
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- KC-V-1, V-5, V-4
- KN-52
- KN-24
- CNS 15458

Mechanical Board Size
NUC7i5DNBE
- 4.0" x 4.0"
- 102 mm x 102 mm

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