Product Brief

INTEL® NUC 7 ESSENTIAL MINI PCS AND KITS

NUC7CJYHN, NUC7PJYHN & NUC7CJYSN

- Intel® HD Graphics
- Dual 4K display capabilities
- 7.1 Surround Sound

The Shape that Fits the Future.

THINK YOU KNOW WHAT SMALL CAN DO? THINK AGAIN.

Whether your customers are home consumers or small businesses, there is an Intel® NUC system to meet the needs of value-oriented buyers who need basic functionality at an affordable price—all in a small package that's about 4 inches square.

Leveraging Intel's most advanced 14nm process technology and optimizations, the Intel® NUC7CJYSN and Intel® NUC7CJYHN are built with dual-core Intel® Celeron® processors; the NUC7CJYSN is a fully configured Mini PC while the NUC7CJYHN is a traditional NUC kit. Also sold as a customizable kit, the Intel® NUC7PJYHN is built with a quad-core Intel® Pentium® Silver processor. Whether you are customizing a kit for your customers or they need a full system, the two Intel NUC kits and the NUC7CJYSN Mini PC are ideal for cost-conscious consumers who need a system for everyday computing.

The Intel® Celeron® Processor: Where performance meets value in two different configurations

The features customers expect in a customizable kit

The Intel NUC7CJYHN Kit with a dual-core Intel Celeron processor comes with dual Ultra HD 4K display support via two full-sized HDMI ports, and consumer infrared. They've got everything they need to stream media, play, or finish that last-minute presentation.

Intel® HD Graphics with dual 4K ports lets your customers display information in brilliant 4K and keeps eyes from tiring on systems used as PC replacements. 4K also adds crisp definition and clarity to images and messages on entry-level digital signage.

A complete Mini PC with Windows® 10 installed

Ready to go straight out-of-the-box, Intel NUC7CJYSN is a complete Mini PC with all the features of the NUC7CJYHN Kit, in the same 4-inch square chassis. The system has Windows® 10 installed on 32 GB of on-board flash storage and 4 GB of DDR4 RAM, so customers can experience this entry-level Mini PC without any additional components.

Because the NUC7CJYSN is a complete system, you can sell across the value chain with no additional work, allowing you to focus on where you add the most value: in service, support, and expert consultation. You can generate additional services and sales of peripherals and software. Room for an extra channel of RAM and a 2.5" SSD or a high-capacity HDD for more storage can also lead to additional sales.

The Intel® Pentium® Silver Processor: Intel's newest processor brand in an Intel NUC kit

The Intel NUC7PJYHN Kit with a quad-core Intel Pentium Silver processor has the reliable performance your customers have come to expect from Intel, and is also perfect for everyday computing tasks, delivering the performance they need, including up to 55 percent better performance on Windows applications.[1]

The NUC7PJYHN Kit also comes with dual Ultra HD 4K display support via two full-sized HDMI ports and consumer infrared; they've got everything they need to stream media, play, or finish that last-minute presentation. And with 3.2x better graphics,[2] you can create robust entry-level digital signage at entry-level prices for your SMB customers.

Deep customization capabilities on both kits

The NUC7CJYHN Kit and the NUC7PJYHN Kit are both designed for Windows 10, but you have the choice to install the OS, memory, and hard drive you want so you can create the exact systems that your customers need. From PC replacement to entry-level digital signage, you can build a Mini PC that does exactly what your customers need it to do.

With support for up to 8 GB of DDR4 RAM, clients can stream media without stuttering and multitask with ease. There are 4 USB 3.0 ports including a USB charging port—which can let you generate additional peripheral sales for USB keyboards, mice, and printers.

Finally, internal headers, including AUX_PWR and CEC, allow for deep customization for PC-like embedded systems.

INTEL® NUC: Performance meets value for daily productivity.

GO SMALL, GET BIG.

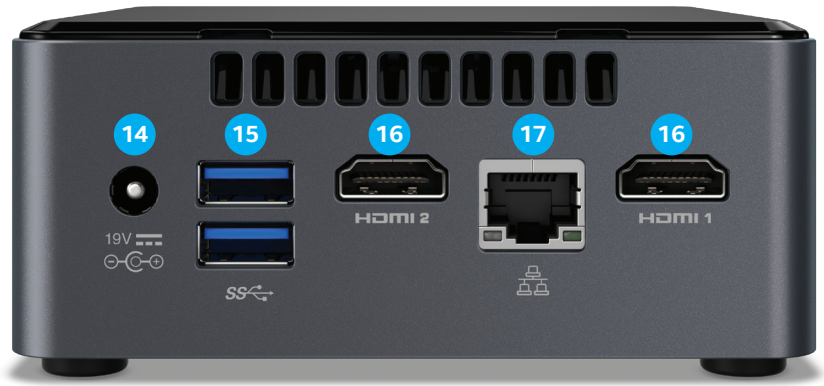
Highlighted Features

1. Intel® Celeron® Processor J4005 (NUC7CJYHN and NUC7CJYSN only)
2. Intel® Pentium® Processor J5005 (NUC7PJYHN only)
3. Intel® HD Graphics 600 (NUC7CJYHN and NUC7CJYSN only)
4. Intel® HD Graphics 605 (NUC7PJYHN)
5. Two DDR4 SO-DIMM sockets (up to 8 GB, 2400 MHz)
6. 1x SATA3 port for connection to 2.5" HDD or SSD
7. Intel® Wireless-AC 9462 and Bluetooth v5
8. Two USB 2.0 internal headers
9. Kensington lock support
10. SD card slot
11. Two USB 3.0 ports (one charging)
12. Front panel power button
13. Support for user-replaceable third-party lids
14. Back panel DC power connector (12–19V)
15. Two USB 3.0 ports on the back panel
16. Two full-size HDMI 2.0a display port supporting 8 channel audio (7.1 surround sound)
17. Gigabit LAN

Intel NUC7CJYSN

A complete Mini PC with a dual-core Intel Celeron processor, 4 GB of DDR4 RAM, and Windows® 10 installed on 32 GB of on-board flash storage, the Intel NUC7CJYSN is ready to go straight out-of-the-box.

The product images shown may represent the range of products, or be for illustration purposes only and may not be an exact representation of the product.



INTEL® NUC 7 ESSENTIAL MINI PCS AND KITS

NUC7CJYHN, NUC7PJYHN & NUC7CJYSN

Technical Specifications

Processor

- Intel® Celeron® processor J4005 (4M Cache, 1.5 GHz, up to 2.80 GHz, 4M Cache, 10W TDP) (NUC7CJYHN and NUC7CJYSN)
- Intel® Pentium® processor J5005 (1.5 GHz, up to 2.80 GHz, 4M Cache, 10W TDP) (NUC7PJYHN)

Graphics

- Intel® HD Graphics 600 (NUC7CJYHN and NUC7CJYSN)
- Intel® HD Graphics 605 (NUC7PJYHN)
- Two HDMI 2.0a ports with 4K at 60 Hz

System Memory

- Two DDR4 SO-DIMM sockets (up to 8 GB, 2400 MHz), 1.2V
- Prepopulated with one 4 GB stick of DDR4 memory (NUC7CJYSN)

Storage Capabilities

- 32 GB on-board eMMC (NUC7CJYSN only)
- One SATA3 port for connection to 2.5" HDD or SSD (up to 9.5 mm thickness)
- One SDXC slot with UHS-I support

Peripheral Connectivity

- Gigabit LAN
- Four USB 3.0 ports (two back panel ports and two front ports)
- Two USB 2.0 ports via internal header
- Intel® Wireless-AC 9462 with Bluetooth v5

System Bios

- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V5.0b, SMBIOS2.5
- 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

- Two Internal USB 2.0 ports
- HDMI CEC header

Audio

- Up to 7.1 surround audio via HDMI

Front Panel Header

- Reset, HDD LED, Power LEDs, power on/off

Mechanical Chassis Size

- 4.55" x 4.57" x 2.01"
- 115mm x 111mm x 51mm

Baseboard Power Requirements

- 19V, 65W AC-DC power brick adapter

Environment Operating Temperature

- 0° C to +40° C

Storage Temperature

- -20° C to +60° C

Product Safety Regulations and Standards

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

EMC/RF 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 62511
- AS/NZS 2772.2
- AS/NZS 4268
- VCCI V-2, 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

Energy Efficiency Regulations for Mini PCs

- US Energy Star and CEC
- EU ErP Directive
- China CEL
- South Korea E-standby
- Australia GEMS
- Israel Energy Source
- Japan Energy Saving Act
  2022年度基準: 15区分,28.5kWh/年

[1] As projected by SYSmark* 2014 v1.5 on Intel® Pentium® Silver Processor N5000, PL1=6W TDP, 4C/4T, up to 2.7GHz, Memory: 2x2GB DDR4 2400, Storage: Intel SSD, OS: Windows® 10 RS2 vs. Intel® Pentium® Processor N3540, PL1=7.5W TDP, 4C/4T, up to 2.66GHz, Memory: 2x2GB DDR3L-1333, Storage: Intel SSD, OS: Windows® 10 RS2 (55% MOBILE) and Intel® Pentium® Silver Processor J5005 , PL1=10W TDP, 4C/4T, up to 2.8GHz, Memory: 2x2GB DDR4 2400, Storage: Intel SSD, OS: Windows® 10 RS2 vs. Intel® Pentium® Processor J2900, PL1=10W TDP, 4C/4T, up to 2.67GHz, Memory: 2x2GB DDR3L-1333, Storage: Intel SSD, OS: Windows® 10 RS2 (60% DESKTOP).

[2] As projected by 3DMark 11 on Intel® Pentium® Silver Processor N5000, PL1=6W TDP, 4C/4T, up to 2.7GHz, Memory: 2x2GB DDR4 2400, Storage: Intel SSD, OS: Windows® 10 RS2 vs. Intel® Pentium® Processor N3540, PL1=7.5W TDP, 4C/4T, up to 2.66GHz, Memory: 2x2GB DDR3L-1333, Storage: Intel SSD, OS: Windows® 10 RS2 (3.2X MOBILE) and Intel® Pentium® Silver Processor J5005 , PL1=10W TDP, 4C/4T, up to 2.8GHz, Memory: 2x2GB DDR4 2400, Storage: Intel SSD, OS: Windows® 10 RS2 vs. Intel® Pentium® Processor J2900, PL1=10W TDP, 4C/4T, up to 2.67GHz, Memory: 2x2GB DDR3L-1333, Storage: Intel SSD, OS: Windows® 10 RS2 (3.9X DESKTOP).

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Actual Intel® NUC kit may differ from the image shown.

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