



PRODUCT BRIEF

DN2820FYKH

Intel® NUC Kit



CONSUMER
INFRARED
SENSOR

SMART
CONNECT



VESA-MOUNT
BRACKET

2.5" DRIVE
SUPPORT

USB
3.0

HDMI*



BUILT-IN

INTEL® VISUAL
BOOT
MANAGER

BLUETOOTH™

GIGABIT LAN

The Shape that Fits the Future.



Taking basic computing to a whole new level.

Proven performance, exceptional value

Built with an Intel® Celeron® processor, this Intel® NUC provides computing and entertainment capabilities beyond the basics, all from the iconic small form factor. Designed with value in mind, the Intel NUC DN2820FYKH strikes the right balance of affordability, connectivity and performance to drive your home office or home theater experience. Internal support for a 2.5 inch HDD enables storage options whether the need be low-cost or cavernous drives. Built-in WiFi and Bluetooth connectivity provides freedom to enjoy your experience anywhere you want, not to mention uncluttering your den or living room. And with an infrared sensor for remote controls, HDMI* video to power the big screen, a combined headphone/microphone jack, and USB 3.0 for fast transfer of media files, the Intel NUC DN2820FYKH gives you the value you want with the performance you demand.

Your digital life in the palm of your hand

The Intel NUC DN2820FYKH is built with the Intel® Celeron® Processor N2820, giving you an ideal combination of power consumption, software compatibility, and performance to drive your social media, work, and entertainment. Create your very own personal cloud with an internal 2.5 inch HDD or SSD and built-in wired and wireless networking. Your cloud can store and share your photos, music, videos, and documents all in an affordable system that fits in the palm of your hand. Or, create a VESA-mounted All-in-One PC by attaching the small unit to the back of your HDMI or DVI¹ monitor with the bundled bracket.

Intel® Visual Boot Manager

This small yet spacious Intel NUC introduces the foundation for a new boot management capability that lets you choose the operating system that works best for you via a user-friendly interface. Building a personal productivity PC or Home Theater PC? You can now easily manage your boot choices between two or more OS installations.



Exceptional Value in Four Inches Square

HIGHLIGHTED FEATURES

- 1 Intel® Celeron® Processor N2820
- 2 One SO-DIMM slot for memory expandability up to 8 GB
- 3 Built-in Intel® Wireless-N 7260BN (802.11bgn, Bluetooth 4.0 and Intel® Wireless Display²)
- 4 Internal 2.5 inch HDD or SSD capability
- 5 Front panel USB 3.0 port
- 6 Consumer infrared sensor
- 7 12V, 36W DC power connector
- 8 HDMI* port supporting HDMI 1.4a
- 9 Gigabit Ethernet LAN
- 10 Dual back panel USB 2.0 ports
- 11 Headphone/microphone jack
- 12 Power button and LED



Intel® NUC Kit DN2820FYKH

TECHNICAL SPECIFICATIONS

PROCESSOR

- Intel® Celeron® Processor N2820 (up to 2.39 GHz, dual-core processor with 1MB cache)
- Supports Intel® Smart Connect Technology³
- Supports Intel® Virtualization Technology (VT-x)
- Supports Intel® 64 architecture⁴

GRAPHICS

- Intel® HD Graphics (up to 756 MHz Graphics Max Dynamic Frequency)
- One HDMI* 1.4a port

SYSTEM MEMORY

- One DDR3L SO-DIMM slot for memory expandability up to 8 GB
- 1.35V, 1333/1600 MHz (down clocked to 1066 MHz)

PERIPHERAL CONNECTIVITY

- Intel® Wireless-N 7260BN PCIe* mini card pre-installed (802.11bgn, Bluetooth* 4.0, Intel® Wireless Display)
- Integrated 10/100/1000 Mbps Ethernet Network Connection
- One SuperSpeed USB 3.0 port (front panel)
- Two Hi-Speed USB 2.0 ports (back panel)

SYSTEM BIOS

- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V3.0b, SMBIOS2.5
- Intel® Visual BIOS
- Intel® Visual Boot Manager
- Intel® Express BIOS update support
- Optimized POST for almost instant-on access to PC from power on

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 PCI Express* half-length mini-card connector⁵ (factory pre-installed with wireless mini-card)
- 1x SATA port (3 Gb/s) for internal support for 2.5" HDD or SSD

AUDIO

- Intel® HD Audio⁶ via HDMI 1.4a output supporting 8 channel (7.1) digital audio
- Intel® HD Audio via Realtek ALC283 and 1/8" analog audio jack, supporting headset, speakers, headphones, or microphone

MECHANICAL CHASSIS SIZE

- 4.59" x 4.41" x 2.03"
- 116.6mm x 112.0mm x 51.5mm

BASEBOARD POWER REQUIREMENTS

- 12V, 36W DC power
- Multi-country AC adapter (IEC plug types A, C, G, and I)

ENVIRONMENT OPERATING TEMPERATURE

- 0° C to +50° C

STORAGE TEMPERATURE

- -20° C to +70° C

REGULATIONS AND SAFETY STANDARDS

United States

UL 60950-1

Canada

CAN/CSA-C22.2 No. 60950-1

Europe

(Low Voltage Directive 2006/95/EC)

EN 60950-1

International

IEC 60950-1

EMC REGULATIONS (CLASS B)

United States

FCC CFR Title 47, Chapter 1, Part 15, Subparts A, B

Canada

ICES-003

Europe

(EMC Directive 2004/108/EC)

EN 55022 and EN 55024

Australia/New Zealand

EN 55022

Japan

VCCI V-3, V-4

South Korea

KN-22 and KN-24

Taiwan

CNS 13438

International

CISPR 22

ENVIRONMENTAL COMPLIANCE

Europe

Europe RoHS (Directive 2011/65/EU)

China

China RoHS (MII Order #39)

¹ Connectivity from DN2820FYKH to DVI monitor requires a passive HDMI to DVI-D cable or adapter, sold separately.

² Requires an Intel® Wireless Display enabled system, compatible adapter and TV, 1080p and Blu-Ray* or other protected content playback only available on select Intel® processor-based systems with built-in visuals enabled, a compatible adapter and media player, and supporting Intel® WDI software and graphics driver installed. Consult your PC manufacturer. For more information, see www.intel.com/go/widi.

³ Intel® Smart Connect Technology requires a select Intel® processor, Intel® software and BIOS update, Intel® Wireless adapter, and Internet connectivity. Solid-state memory or drive equivalent may be required. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

⁴ Requires a system with a 64-bit enabled processor, chipset, BIOS and software. Performance will vary depending on the specific hardware and software you use. Consult your PC manufacturer for more information. For more information, visit <http://www.intel.com/info/em64t>

⁵ System resources and hardware (such as PCI and PCI Express*) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operating system and applications, depending on the system configuration and operating system.

⁶ Requires an Intel® HD Audio enabled system. Consult your PC manufacturer for more information. Sound quality will depend on equipment and actual implementation. For more information about Intel HD Audio, refer to www.intel.com/design/chipset/hdaudio.htm

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



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