PRODUCT BRIEF

DN2820FYKH
Intel® NUC Kit

The Shape that Fits the Future.
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 DVI 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 Display®)
4. Internal 2.5 inch HDD or SDD 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 1 MB cache)
• Supports Intel® Smart Connect Technology\(^1\)
• Supports Intel® Virtualization Technology (VT-x)
• Supports Intel® 64 architecture\(^1\)

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 V300b, SMBIOS 2.5
• 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 connector\(^5\)
• 1x SATA port (3 Gb/s) for internal support for 2.5" HDD or SSD

AUDIO
• Intel® HD Audio\(^6\) 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
• 459.9 x 441.1 x 20.3\(^1\)
• 116.6 mm x 112.0 mm x 51.5 mm

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
CANC/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 I, 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)

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1213/UMD/H8B/PDF  Please Recycle
329897-001US

Look for Intel® NUC with Intel Inside® at
www.intel.com/NUC

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\(^1\) 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/design/chipset/hdaudio.htm
\(^3\) 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/hd/audio.htm
\(^4\) 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.
\(^5\) 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/hd/audio.htm
\(^6\) 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.