

Product Brief



INTEL® NUC KIT NUC6i7KYK



DUAL M.2 SSD | THUNDERBOLT™ 3



THINK YOU KNOW WHAT SMALL CAN DO? THINK AGAIN.

Change the game with the Intel® NUC Kit NUC6i7KYK. A Mini PC with the 6th generation Intel® Core™ i7 processor and Intel® Iris™ Pro Graphics, the NUC6i7KYK unleashes maximized performance for intense game play or intensive workloads. With an amazing new lid, along with a redesigned chassis that lets you take full advantage of every GHz of the quad-core processor without overheating—the NUC6i7KYK is totally cool. Literally.

Whether you use the NUC to train your dragon or bring down your enemy's nexus, or to visualize complex information like Monte Carlo simulations, you've got the performance you need, including 30x better 3D graphics^{1,2} for higher resolution and faster frame rates. And with Thunderbolt™ 3 you get four times the data and twice the video bandwidth of any other cable³—which means you have blazing fast throughput for an external RAID stack or an external graphics engine.

Work and Play in High Resolution with Intel® Iris™ Pro Graphics

Intel® Iris™ Pro Graphics with 4K display capabilities let you edit photos and videos like a professional or immerse yourself in vividly rendered, seamless 3D gameplay, all in brilliant 4K on three monitors at once. When you use Intel Iris Pro graphics, you're working smarter, playing harder, and seeing the whole world in high resolution knowing you are using the best Intel® Core™ processors. You've got the best processor graphics with enhanced media conversion and fast frame that delivers picture perfect performance, every time.

Designed for Windows® 10, so you can get more done

The Intel NUC is designed for Windows® 10. You'll experience cutting-edge performance from the start with fast boot and wake-up times, and multitasking that's effortless whether moving between apps, files, or web sites.⁴ With support for up to 32 GB of RAM, you can get the memory you need for fast map load times or extreme multitasking. And with 4 USB 3.0 ports including a USB charging port, you can use a USB keyboard, mouse, and an Intel® RealSense™ camera so you can video chat and collaborate with others as easily as if you were in the same room.

Cut the cords, not the performance

The NUC6i7KYK comes with Intel® 802.11ac wireless, Intel's fastest wireless available today, so you can connect out-of-the-box and access files, movies, and music in the cloud, along with built-in Bluetooth* 4.2 so you can connect wireless peripherals like headsets and keyboards.

INTEL® NUC: CHANGE THE GAME

GO SMALL. GET BIG.

Highlighted Features

- 1 6th generation Intel® Core™ i7-6770HQ processor
- 2 Intel® Iris™ Pro Graphics
- 3 Two DDR4 SO-DIMM sockets (up to 32 GB, 2133+ MHz)
- 4 Two M.2 slots with flexible support for a 42 or 80 mm SATA or PCIe* SSD
- 5 Intel® Dual Band Wireless-AC 8260 and Bluetooth* 4.2
- 6 SD card slot
- 7 Two USB 3.0 ports (including one charging port)
- 8 Intel® HD Audio⁴ via Headphone/Microphone jack
- 9 Consumer infrared sensor
- 10 Support for user-replaceable third-party lids
- 11 Kensington lock support
- 12 Back panel DC power connector (19V)
- 13 Combo speaker/TOSLINK audio output
- 14 Intel® Gigabit LAN
- 15 Two USB 3.0 ports on the back panel
- 16 One Mini DisplayPort* version 1.2 supporting 8 channel digital audio (7.1 surround sound)
- 17 One Thunderbolt™ 3 port
- 18 One full-size HDMI* 2.0 display port supporting 8 channel audio (7.1 surround sound)



INTEL® NUC KIT NUC6i7KYK

Technical Specifications

PROCESSOR

- Intel® Core™ i7-6770HQ processor (2.6 to 3.5 GHz turbo, Quad Core, 6 MB Cache, 45W TDP)

GRAPHICS

- Intel® Iris™ Pro Graphics 580
- One HDMI* 2.0 port
- One Mini DisplayPort* 1.2
- Thunderbolt™ 3 with support for DisplayPort* 1.2

SYSTEM MEMORY

- Two DDR4 SO-DIMM sockets (up to 32 GB, 2133+ MHz), 1.2V, 1.35V

STORAGE CAPABILITIES

- SDXC slot with UHS-I support on the front
- Two M.2 Type M connectors supporting 22x42 or 22x80 SATA or PCIe* SSD

PERIPHERAL CONNECTIVITY

- Intel® Gigabit LAN
- One Thunderbolt™ 3 port with USB 3.1
- Four Super Hi-Speed USB 3.0 ports (two back panel ports and two front ports including one charging port)
- Intel® Dual Band Wireless-AC 8260 (802.11ac), 2x2, up to 867 Mbps
- Dual Mode Bluetooth* 4.2

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® 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 NFC header
- Two Internal USB 2.0 ports
- Two additional Hi-Speed USB 3.0 ports via internal headers

AUDIO

- Up to 7.1 surround audio via HDMI and Mini DisplayPort
- Headphone/Microphone jack on the front panel
- Combo speaker/TOSLINK audio output on the back panel

FRONT PANEL HEADER

- Reset, Power LED, power on/off

MECHANICAL CHASSIS SIZE

- 211 mm x 116 mm x 28 mm
- 8.30" x 4.56" x 1.10"

BASEBOARD POWER REQUIREMENTS

- 19V, 120W AC-DC power adapter

ENVIRONMENT OPERATING TEMPERATURE

- 0° C to +40° C

STORAGE TEMPERATURE

- 20° C to +60°

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 22
- FCC CFR Title 47, Chapter I, Part 15, Subparts A, B
- ICES-003
- EN 55022
- EN 55024
- ETSI EN 300 328
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 301 893
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- VCCI V-3, V-4
- KN-22
- KN-24
- CNS 13438

ENVIRONMENTAL REGULATIONS

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS MII Order #39

¹ Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. Performance tests, such as SYSmark®, MobileMark®, and SPEC CPU are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information about performance and benchmark results, visit <http://www.intel.com/performance>.

² Measured using 3DMark® 1.2.0 Cloud Gate for DX 10 graphics subtest - a 3D graphics benchmark that measures 3D gaming performance. Find out more at www.futuremark.com.

³ Requires USB-C cable.

⁴ Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at www.intel.com.

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

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