intel Look Inside.™

PRODUCT BRIEF

NUC5i3RYK

Intel® NUC Kit

7.1 SURROUND SOUND

SUPPORTS 4K DISPLAY

802.11ac WIRELESS + BLUETOOTH

INTEL HD GRAPHICS 5500

intel WiDi

INTEL® RAPID START TECHNOLOGY

USB 3.0 CHARGING PORT

M.2 SSD SUPPORT

MINI HDMI

intel inside™ CORE™ i3

The Shape that Fits the Future.

Think you know what small can do?
Think again.

A Pint-Sized Powerhouse

The 4-inch square Intel® NUC NUC5i3RYK takes the powerful capabilities of a desktop system and packages it into a computer that fits in the palm of your hand. This fully scalable system comes with the latest 5th generation Intel® Core™ i3 processor and integrated Intel® HD Graphics with 4K display support, packed into a stylish Mini PC that can easily fit into any room in the house.

Whether you want a digital jukebox, home hub, or light gaming PC, the Intel NUC NUC5i3RYK gives you the power to play, create, entertain, and inspire. The system is designed to hold a lightning fast and compact M.2 SSD so you can quickly stream music or movie files, and also features consumer infrared and a Mini HDMI* video interface. With Intel® WiDi[1] you can connect your monitor without any additional cables and Bluetooth lets you place wireless speakers where you want—all the features you want in a space-saving, clutter-free design.

A replaceable lid gives you plenty of options to create the NUC you want—with amazing style and features. There's also a high-speed USB 3.0 charging port that lets you easily charge your tablet or smartphone quickly.

Superior processing and graphics

The Intel NUC NUC5i3RYK is equipped with the 5th generation Intel Core i3 processor featuring Intel® HD Graphics 5500 with 4K display capabilities to provide amazing performance and visually stunning graphics for mainstream gaming, and video and music streaming. Performance and graphics coupled with the addition of 7.1 surround sound delivers the digital jukebox you always dreamed was possible.

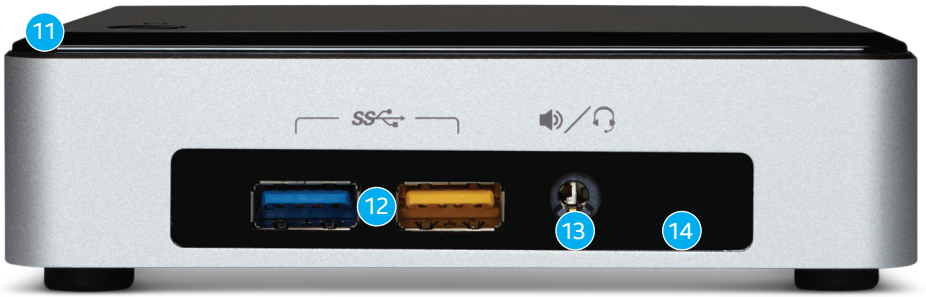
Advanced technologies

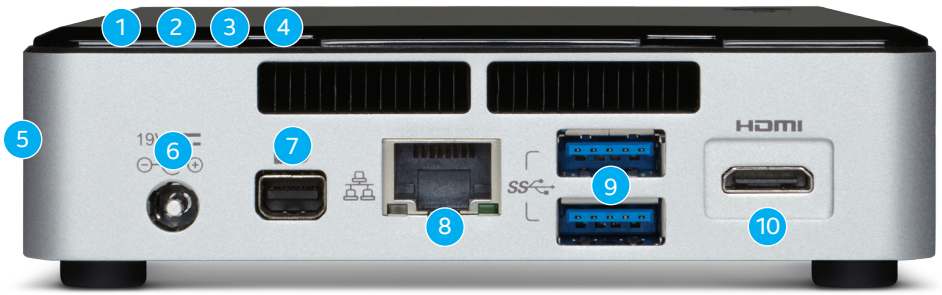
Based on the 5th generation Intel® Core™ processor, you'll get ultra-responsive performance in a highly secure platform. Intel® Rapid Start Technology[2] ensures you are quickly up and running. Intel® Ready Mode Technology[3] means you'll never miss out on e-mail, IMs, real-time news and sports updates, or social media posts. It also lets you stay connected with friends and family by keeping your video conferencing apps running in the background. And for peace of mind you'll get embedded security that helps keep threats out, user identities and credentials safe, and your data protected.

Power, Capabilities, and Performance in Four Inches Square

HIGHLIGHTED FEATURES

1. 5th generation Intel® Core™ i3-5010U processor
2. Two DDR3L SO-DIMM sockets (up to 16 GB, 1333/1600 MHz)
3. M.2 slot with flexible support for a 42, 60, or 80 mm SATA or PCIe* SSD
4. Intel® Dual Band Wireless-AC and Bluetooth 4.0
5. Kensington lock support
6. Backpanel DC power connector (12V - 19V)
7. One Mini DisplayPort* version 1.2 supporting 8 channel digital audio (7.1 surround sound)
8. Intel® Gigabit LAN
9. 2x USB 3.0 ports on the back panel
10. Mini HDMI* port supporting HDMI 1.4a and 7.1 surround sound
11. Support for user-replaceable third-party lids
12. 2x USB 3.0 ports on the front panel (including one charging port)
13. Intel® HD Audio[4] via Headphone/Microphone jack
14. Consumer infrared sensor





Intel® NUC NUC5i3RYK
TECHNICAL SPECIFICATIONS

PROCESSOR
- 5th generation Intel® Core™ i3-5010U processor (2.1 GHz Dual Core, 3 MB Cache, 15W TDP)
- Supports Intel® Hyper-Threading Technology[5]
- Supports Intel® 64 architecture[6]

GRAPHICS
- Intel® HD Graphics 5500
- One Mini DisplayPort* version 1.2 supporting ultra-high definition 4K displays and multiple monitor functionality
- One Mini HDMI* 1.4a port

SYSTEM MEMORY
- Two DDR3L SO-DIMM sockets (up to 16 GB, 1333/1600 MHz) in dual channel configuration, 1.35V

STORAGE CAPABILITIES
- One M.2 Type M connector supporting 22x42, 22x60, and 22x80 SATA or PCIe*[7] SSDs

PERIPHERAL CONNECTIVITY
- Integrated Intel® Gigabit LAN
- Four Super Hi-Speed USB 3.0 ports (two back panel ports and two front ports including one charging port)
- Two additional Hi-Speed USB 2.0 ports via internal header
- Intel® Dual Band Wireless-AC 7265, 802.11ac, 2x2, up to 867Mbps
- Dual Mode Bluetooth 4.0

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
- 2x Internal USB 2.0 ports via 1x8 header (for replaceable lid support)
- One AUX_PWR header

AUDIO
- Intel® HD Audio[4] via Mini HDMI 1.4a and Mini DisplayPort version 1.2 supporting 8 channel digital audio (7.1 surround sound)
- Intel HD Audio via front panel analog audio jack (supporting headset, speakers, headphones, microphone)

FRONT-PANEL CONNECTORS
- Reset, HDD LED, Power LEDs, power on/off

MECHANICAL CHASSIS SIZE
- 4.53" x 4.37" x 1.36"
- 115mm x 111mm x 34.5mm

BASEBOARD POWER REQUIREMENTS
- 19V, 65W wall-mount AC-DC power adapter
- 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

PRODUCT SAFETY REGULATIONS AND STANDARDS
- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

EMC REGULATIONS AND STANDARDS (CLASS B)
- CISPR 22
- FCC CFR Title 47, Chapter I, Part 15, Subparts A, B
- ICES-003
- EN 55022
- EN 55024
- VCCI V-3, V-4
- KN-22
- KN-24
- CNS 13438

ENVIRONMENTAL REGULATIONS
- RoHS Directive 2011/65/EU
- WEEE Directive 2002/96/EC
- China RoHS MII Order #39

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

[1] 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® WiDi software and graphics driver installed. Consult your PC manufacturer. For more information, see www.intel.com/go/widi.

[2] Requires a select Intel® processor, enabled chipset and a Solid-State Drive (SSD) or hybrid drive. Contact your system manufacturer for more information.

[3] Requires an Intel® Ready Mode Technology-enabled system or motherboard, a genuine Intel® processor, and Windows* 7 or Windows 8 OS. Results dependent upon hardware, applications installed, Internet connectivity, setup, and configuration. For more information about Intel Ready Mode Technology, refer to http://www.intel.com/content/www/us/en/architecture-and-technology/intel-ready-mode-technology.html.

[4] 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

[5] Available on select Intel® processors. Requires an Intel® HT Technology-enabled system. Your performance varies depending on the specific hardware and software you use. Learn more by visiting http://www.intel.com/info/hyper-threading.

[6] Requires a system with a 64-bit enabled processor, chipset, BIOS and software. Performance varies depending on the specific hardware and software you use. Check with your manufacturer for more information. Learn more at http://www.intel.com/info/em64t.

[7] 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.

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

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