



PRODUCT BRIEF

# NUC5i5RYH

Intel® NUC Kit

7.1 SURROUND SOUND



SUPPORTS  
4K DISPLAY

INTEL  
HD GRAPHICS  
6000



INTEL® RAPID START  
TECHNOLOGY

M.2 SSD

2.5" HDD

USB 3.0  
CHARGING PORT



The Shape that Fits the Future.



Think you know what small can do?  
Think again.

## Ultra Compact. Ultra Impact.

A revolution in ultra-compact device design, the Intel® NUC NUC5i5RYH packs more features, including support for M.2 form factor SSDs, into 4 inches square. This fully scalable, Mini PC comes with the latest 5th generation Intel® Core™ i5 processor, delivering the performance to drive intelligent computing in small spaces.

Ideal for home theater PCs, media server PCs, and home hubs, the Intel NUC NUC5i5RYH includes a consumer infrared sensor so you can control your NUC from the comfort of your couch, 7.1 surround sound, and room for either a 2.5" HDD or an M.2 SSD drive so you can store full length movies or quickly access game or media files. Use either the mini HDMI\* video interface or Intel WiDi to connect your Intel NUC to a display—and connect wireless speakers or keyboard and mouse via Bluetooth.

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 even when the Intel NUC is idle. With this kind of power, size, and versatility, you'll rethink what's possible.

### Superior processing and graphics

The NUC5i5RYH is equipped with the 5th generation Intel® Core™ i5-5250U processor with Intel® Turbo Boost Technology 2.0<sup>1</sup> which gives you extra GHz on demand to let you maximize performance on processor-intensive tasks like media editing. It also features Intel® HD Graphics 6000 with 4k display capabilities to provide amazing performance and visually stunning graphics for immersive gaming and home theaters.

### 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<sup>2</sup> ensures that there's less waiting and more doing. Intel® Ready Mode Technology<sup>3</sup> 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 i5-5250U processor
- 2 Two SO-DIMM sockets for memory expandability up to 16 GB
- 3 M.2 slot with flexible support for a 42, 60, or 80 mm SATA or PCIe\* SSD
- 4 1x SATA port for connection to 2.5" HDD or SSD
- 5 One Mini DisplayPort\* supporting DP 1.2
- 6 Mini HDMI\* port supporting HDMI 1.4a
- 7 2x USB 3.0 ports on the back panel
- 8 Intel® Gigabit LAN
- 9 Backpanel DC power connector (12V - 19V)
- 10 2x USB 3.0 ports on the front panel
- 11 Consumer infrared sensor
- 12 Intel® HD Audio<sup>4</sup> via Mini DisplayPort\* and Headphone/Microphone jack
- 13 Support for user-replaceable third-party lids
- 14 Kensington lock support



# Intel® NUC NUC5i5RYH

## TECHNICAL SPECIFICATIONS

### PROCESSOR

- 5th Generation Intel® Core i5-5250U Processor (1.6 GHz up to 2.7 GHz Turbo, Dual Core, 3 MB Cache, 15W TDP)
- Supports Intel® Hyper-Threading Technology<sup>5</sup>
- Supports Intel® 64 architecture<sup>6</sup>

### GRAPHICS

- Intel® HD Graphics 6000
- One Mini DisplayPort\* 1.2 supporting ultra-high definition 4K displays and multiple monitor functionality
- One Mini HDMI\* 1.4a port

### SYSTEM MEMORY

- Dual-channel DDR3L with two connectors for 1866/1600/1333 MHz memory support (16 GB max)

### STORAGE CAPABILITIES

- **One M.2 Type B connector supporting 22x42 and 22x80 SSDs**
- **One SATA 6Gbps port for connection to 2.5" HDD or SSD (up to 9.5 mm thickness)**
- **Trusted Platform Module (TPM 1.2)**

<sup>1</sup> Requires a system with Intel® Turbo Boost Technology. Intel Turbo Boost Technology and Intel Turbo Boost Technology 2.0 are only available on select Intel® processors. Consult your system manufacturer. Performance varies depending on hardware, software, and system configuration. For more information, visit <http://www.intel.com/go/turbo>

<sup>2</sup> Requires a select Intel® processor, Intel® software and BIOS update, and a Solid-State Drive (SSD) or hybrid drive. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

<sup>3</sup> Requires an Intel® Ready Mode Technology-enabled system or motherboard, a genuine Intel® processor, Windows® 7 or Windows® 8 OS. Results dependent upon hardware, applications installed, internet connectivity, setup and configuration.

<sup>4</sup> 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/haudio.htm](http://www.intel.com/design/chipset/haudio.htm)

### PERIPHERAL CONNECTIVITY

- Integrated Intel 10/100/1000 Network Connection
- 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

### 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 M.2 22x42, 60, 80 mm slot for SATA-III or PCI\* SSD support<sup>7</sup>
- 1x SATA port for connection to 2.5" HDD or SSD
- **One NFC header**
- **2x Internal USB 2.0 ports via 1x8 header (for replaceable lid support)**

<sup>5</sup> Available on select Intel® Core™ processors. Requires an Intel® HT Technology-enabled system. Consult your PC manufacturer. Performance will vary depending on the specific hardware and software used. For more information including details on which processors support HT Technology, visit <http://www.intel.com/info/hyperthreading>.

<sup>6</sup> 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>

<sup>7</sup> 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.

### AUDIO

- Intel® HD Audio<sup>4</sup> via Mini HDMI 1.4a and Mini DisplayPort 1.2 output supporting 8 channel (7.1) digital audio
- Intel® HD Audio via stereo analog audio jack (microphone in/headphone out/speaker out)

### FRONT-PANEL CONNECTORS

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

### MECHANICAL CHASSIS SIZE

- 4.54" x 4.38" x 1.92"
- 115.4mm x 111.3mm x 48.7mm

### BASEBOARD POWER REQUIREMENTS

- DC Power 12 - 19 V, 65 W
- **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

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### 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

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