

Intel® NUC Kit NUC5i3RYK

Specifications

- Essentials

Status	Launched
Launch Date	Q1'15
Expected Discontinuance	See Roadmap
Board Form Factor	UCFF (4" x 4")
Socket	Soldered-down BGA
Internal Drive Form Factor	M.2 SSD
# of Internal Drives Supported	1
Embedded Options Available	No
Lithography	14 nm
TDP	15 W
DC Input Voltage Supported	12-19 VDC
Recommended Customer Price	\$279.00
Datasheet	Link
Processor Included	Intel® Core™ i3-5010U Processor (3M Cache, 2.10 GHz)
Product Brief	Link
Additional Information URL	Link
Warranty Period	3 yrs

- Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3L-1333/1600 1.35V SO-DIMM
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
Max # of DIMMs	2
ECC Memory Supported †	No

- Graphics Specifications

Integrated Graphics †	Yes
Graphics Output	Mini-DP 1.2, Mini-HDMI 1.4a
Intel® Clear Video Technology	Yes
# of Displays Supported †	3

- Expansion Options

PCI Express Revision	Gen2
PCI Express Configurations †	M.2 slot with PCIe x4 lanes

M.2 Card Slot (storage)	22x42,60,80
- I/O Specifications	
USB Revision	2.0 3.0
# of USB Ports	6
USB 2.0 Configuration (External + Internal)	0 + 2
USB 3.0 Configuration (External + Internal)	2B 2F + 0
Total # of SATA Ports	2
Max # of SATA 6.0 Gb/s Ports	2
Audio (back channel + front channel)	7.1 digital (mHDMI mDP); L+R+mic (F)
Integrated LAN	10/100/1000
Integrated Wifi	Intel® Wireless-AC 7265 + BT 4.2
Integrated Bluetooth	Yes
Additional Headers	NFC, 2x USB2.0, AUX_PWR
- Package Specifications	
Low Halogen Options Available	See MDDS
- Advanced Technologies	
Intel® Virtualization Technology for Directed I/O (VT-d) †	Yes
Intel® vPro Technology ‡	No
TPM	No
Intel® HD Audio Technology	Yes
Intel® Rapid Storage Technology	Yes
Intel® Virtualization Technology (VT-x) †	Yes
- Intel® Data Protection Technology	
Intel® AES New Instructions	Yes

Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992C	R100230	8471500150

Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Boxed Intel® NUC Kit NUC5i3RYK, Single Pack			
	BOXNUC5I3RYK		\$279.00

Download Drivers

**Intel® Gigabit Network Connection Driver for Intel® NUC**

Installs the LAN driver version 20.7.1 for Intel® NUC products with the Intel® Gigabit Ethernet Controller.

Version: 20.7.1 (Latest)

Date: 4/29/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**Intel® Remote Keyboard Host App**

Installs the Intel® Remote Keyboard Host App, which allows you to control your Intel® NUC or Intel® Compute Stick from your mobile device.

Version: 1.8 (Latest)

Date: 4/12/2016

Operating Systems: Windows 8.1, 32-bit*, Windows 8.1, 64-bit*, Windows® 10, 32-bit, Windows® 10, 64-bit

**Intel® HD Graphics Driver for Windows 7*/8.1 and Windows® 10 64-bit for Intel® NUC**

Installs the video graphics driver version 15.40.22.4424 for Intel® NUC products.

Version: 15.40.22.4424 (Latest)

Date: 4/11/2016

Operating Systems: Windows 7, 64-bit*, Windows 8.1, 64-bit*, Windows® 10, 64-bit

**Wireless: Intel® Wireless Technology-Based Driver for Intel® NUC**

Choose the download to install the appropriate Intel® Wireless Technology-based driver version 18.40.0 for the Intel® NUC for various Windows® OS versions.

Version: 18.40.0 (Latest)

Date: 4/5/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**Intel Bluetooth® Technology-Based Driver for Windows® 10 and Windows 7*/8.1* for Intel® NUC**

Installs version 18.16.1 of the Bluetooth® technology drivers for the Intel® NUC Kit using Windows® 7/8.1 or Windows® 10.

Version: 18.16.1 (Latest)

Date: 4/5/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**RAID: Intel® Rapid Storage Technology for Intel® NUC**

Installs the Intel® Rapid Storage Technology RAID driver version 14.10.0.1016 for Intel® NUC.

Version: 14.10.0.1016 (Latest)

Date: 4/5/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**Intel® Chipset Device Software for Intel® NUC**

Installs Intel® Chipset Device Software version 10.1.1.14 for Intel® NUC Boards and Kits.

Version: 10.1.1.14 (Latest)

Date: 4/5/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**Audio: Realtek® ALC Audio Driver for Intel® NUC**

This download record provides the Realtek® Audio Driver version 6.0.1.7730 for the front panel audio jack on Intel® NUC.

Version: 6.0.1.7730 (Latest)

Date: 3/1/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more

**BIOS Update [RYBDWi35.86A]**

This download record provides options for updating the BIOS of Intel® NUC Kits NUC5i3RYH, NUC5i3RYK, NUC5i5RYH, NUC5i5RYK, and NUC5i7RYH.

Version: 0355 (Latest)

Date: 2/25/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, OS Independent, 4 more

**Replaceable lid drawings**

Mechanical drawings of the replaceable lids for Intel® NUC Kits.

Version: N/A (Latest)

Date: 2/5/2016

Operating Systems: OS Independent

**Intel® HD Graphics Driver for Windows 7*/8.1* 32-bit for Intel® NUC**

This download installs the video Intel® HD Graphics Driver version 15.40.14.4352 for Intel® NUC products running Windows® 7 and Windows 8, 32-bit.

Version: 15.40.14.4352 (Latest)

Date: 1/29/2016

Operating Systems: Windows 7, 32-bit*, Windows 8.1, 32-bit*

**Board drawings for chassis design**

Mechanical drawings of Intel® NUC Boards for chassis designers.

Version: N/A (Latest)**Date:** 11/1/2015**Operating Systems:** OS Independent**Kit drawings for chassis integration**

Mechanical drawings of Intel® NUC Kits for integrators.

Version: N/A (Latest)**Date:** 11/1/2015**Operating Systems:** OS Independent**Intel® Ready Mode Technology for Intel® NUC**

Installs the Intel® Ready Mode Technology software.

Version: 1.1.70.506 (Latest)**Date:** 7/17/2015**Operating Systems:** Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more**Intel® Management Engine 11 Driver (1.5M) for Intel® NUC**

Installs the Intel® Management Engine (Intel® ME) version 11.0.0.1158 for Intel® NUC boards and kits.

Version: 11.0.0.1158 (Latest)**Date:** 7/17/2015**Operating Systems:** Windows® 10, 32-bit, Windows® 10, 64-bit**Infrared: Nuvoton® Consumer Infrared (CIR) Driver for Windows® 10 for Intel® NUC**

This download installs the infrared driver version 2.11.1009 for Intel® NUCs with Nuvoton® Consumer Infrared (CIR) for Windows® 10.

Version: 2.11.1009 (Latest)**Date:** 7/17/2015**Operating Systems:** Windows® 10, 32-bit, Windows® 10, 64-bit**NFC: Near Field Communication GPIO driver for Windows 10***

This download record provides the Near Field Communication (NFC) GPIO driver version 8.0.1.0 for the NFC controller on the Intel® NUC.

Version: 8.0.1.0 (Latest)**Date:** 7/17/2015**Operating Systems:** Windows® 10, 32-bit, Windows® 10, 64-bit**USB 3.0: Intel® USB 3.0 Device Driver for Intel® NUC**

This download installs the Intel® USB 3.0 eXtensible Host Controller Driver version 3.0.5.69 for Intel® NUC products.

Version: 3.0.5.69 (Latest)**Date:** 6/19/2015**Operating Systems:** Windows 7, 32-bit*, Windows 7, 64-bit***Wireless: Intel® Wireless Technology-Based Driver for Windows 8**

Installs the wireless (WiFi) drivers for the Intel wireless adapter that is installed in the Intel® NUC Kit.

Version: 17.16.0 (Latest)**Date:** 6/19/2015**Operating Systems:****Intel® Management Engine 10 Driver (1.5M) for Intel® NUC**

Installs the Intel® Management Engine (Intel® ME) version 10.0.38.1036 for Intel® NUC.

Version: 10.0.38.1036 (Latest)**Date:** 1/21/2015**Operating Systems:** Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, Windows 8.1, 64-bit*

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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications

(motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

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System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

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