



PRODUCT BRIEF

# NUC5i3MYHE

Intel® NUC Kit

# NUC5i3MYBE

Intel® NUC Board



TRIPLE DISPLAY

SERIAL PORT EXPANDABILITY

REPLACEABLE LID

M.2 SSD SUPPORT

DUAL MINI DISPLAYPORT

SUPPORTS 4K DISPLAY

TPM 2.0 USB 3.0



12V~19V DC WIDE-RANGE VOLTAGE

The Shape that Fits the Future.



Ideal for Digital Signage with Analytics,  
Intelligent Vending, and PC Replacement.

## Small. Solid. Reliable.

From enterprise to small and medium business, university computing labs to call centers, the Intel® NUC is driving new models of computing in small spaces. The Intel® NUC NUC5i3MYHE kit and NUC5i3MYBE board, built with a 5th generation Intel® Core™ i3 processor, have a small footprint, but big potential. With 4K display support it's an ideal device for digital signage with video analytics, digital kiosk, intelligent vending, or PC replacement.

### The power and performance to run analytics, reduce downtime

The new Intel NUC kit and board are powered by the Intel® Core™ i3-5010U processor, providing an ideal combination of performance and reliability for usages where downtime isn't an option. The advanced capabilities of the Intel® Core™ i3 processor gives your customers performance to run video analytics to help target and personalize messages and offers to the right audience. And the triple display capability means your customers can deliver their messages across multiple screens.

### PC replacement delivers improved productivity

With the processing power and reliability of the Intel Core i3 processor and Intel® HD graphics for a seamless visual experience without needing an additional graphics card, this Intel NUC makes a perfect PC replacement. A VESA mount is included so your customers can create VESA-mounted All-in-Ones for big computing in small spaces. This Intel NUC also includes Intel® Turbo Boost Technology<sup>1</sup> for performance that adapts to your clients' needs, along with improved energy efficiency.

### Designed for flexibility and customization

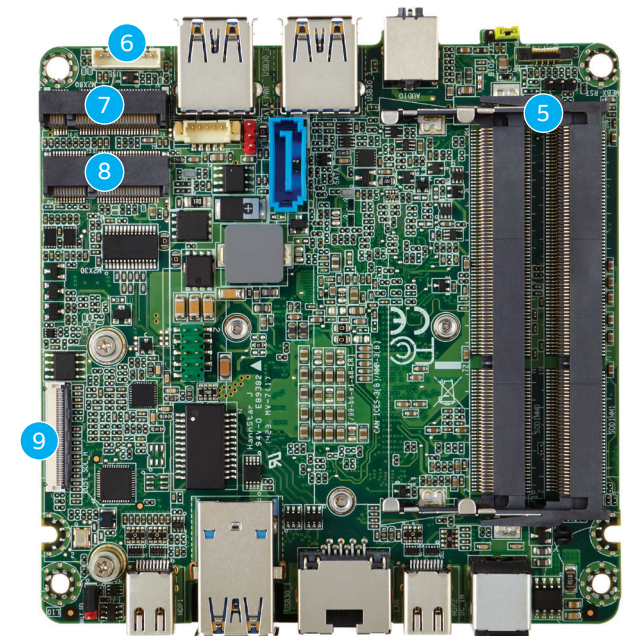
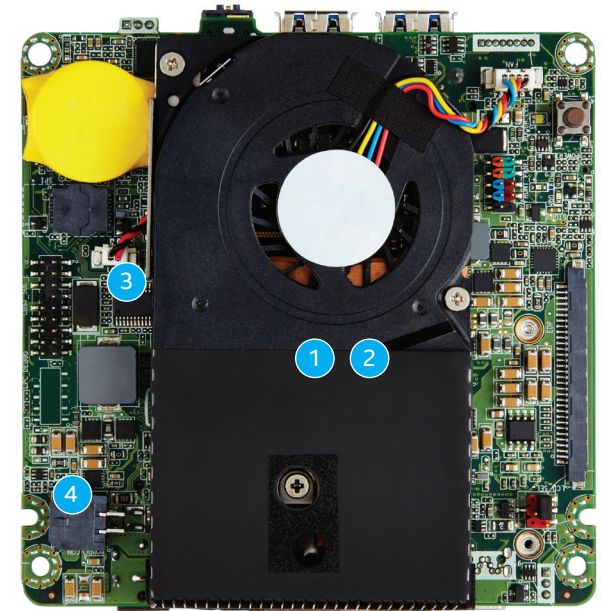
A serial port option to connect legacy embedded devices means that you can customize the Intel NUC for a wide-range of usages, including POS systems. A replaceable lid further extends options for customization, enabling third-party innovation and new usage models with NFC and USB headers. Your customers can choose the type of storage they want, as well. The Intel NUC NUC5i3MYHE and NUC5i3MYBE have the option to install a 2.5" HDD or an M.2 SSD. The choice gives your customers options to store all their files locally or take advantage of the fast, power-efficient M.2 form factor which minimizes load times and improves reliability.



# Perfect for Digital Signage with Video Analytics

## HIGHLIGHTED FEATURES

- 1 5th generation Intel® Core™ i3-5010U processor
- 2 Intel® HD Graphics 5500
- 3 Discrete Trusted Platform Module (TPM 2.0)
- 4 Internal DC power header (12V - 24V)
- 5 Two DDR3L SO-DIMM sockets (up to 16 GB, 1333/1600 MHz)
- 6 2x Internal USB 2.0 ports via 1x8 header (for replaceable lid support)
- 7 Storage support for M.2 SSD card and 2.5" HDD/SSD
- 8 M.2 22x30 slot and wireless antennas pre-assembled (for wireless card support)
- 9 eDP connector
- 10 Support for user-replaceable third-party lids
- 11 Intel® HD Audio<sup>2</sup> via Mini DisplayPort\* and Headphone/Microphone jack
- 12 2x USB 3.0 ports on the front panel
- 13 Two Mini DisplayPorts\* version 1.2 supporting 8 channel digital audio (7.1 surround sound)
- 14 2x USB 3.0 ports on the back panel
- 15 Intel® Gigabit LAN
- 16 Back panel serial port expandability (requires 3rd party serial cable)
- 17 Backpanel DC power connector (12V - 19V)
- 18 Kensington lock support



# Intel® NUC NUC5i3MYHE/NUC5i3MYBE

## TECHNICAL SPECIFICATIONS

### PROCESSOR

- 5th generation Intel® Core™ i3-5010U processor (2.1 GHz Dual Core, 3 MB Cache, 15W TDP)
- Supports Intel® Virtualization Technology (VT-x)
- Supports Intel® 64 architecture<sup>3</sup>

### GRAPHICS

- Intel® HD Graphics 5500
- Two Mini DisplayPorts\* version 1.2 each supporting ultra-high definition 4K displays and multiple monitor functionality
- One eDP connector (2-lane with backlight and adjustable voltage/timings)

### SYSTEM MEMORY

- Two DDR3L SO-DIMM sockets (up to 16 GB, 1333/1600 MHz)

### STORAGE CAPABILITIES

- One M.2 Type B connector supporting 22x42 and 22x80 SATA or PCIe\*<sup>4</sup> SSDs
- One SATA 6Gbps port for connection to 2.5" HDD or SSD (up to 9.5 mm thickness)
- Trusted Platform Module (TPM 2.0)

### PERIPHERAL CONNECTIVITY

- Integrated Intel® Gigabit LAN
- Two USB 3.0 port (front panel)
- Two USB 3.0 ports (back panel)
- Two USB 2.0 ports (internal header)
- One serial port (internal header) with back-panel DB9 port option (3rd party cable)

### SYSTEM BIOS

- Intel® Visual 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® Express BIOS update support
- Optimized POST for almost instant-on access to PC from power on

### HARDWARE MANAGEMENT FEATURES

- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control
- Built-in watchdog timer support

### EXPANSION CAPABILITIES

- One M.2 22x30 Type E connector (antennas pre-assembled for wireless card support)
- One Custom Solutions header (DMIC, 3x GPIO, 2x I2C, SMBus, 3.3/5 Vstby)

- One High-Speed Custom Solutions connector (PCIe\* x4)
- One NFC header

### AUDIO

- Intel® HD Audio<sup>2</sup> via 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)

### MECHANICAL CHASSIS SIZE

- 4.53" x 4.37" x 1.9"
- 115 mm x 111 mm x 48.7 mm

### BASEBOARD POWER REQUIREMENTS

- 12-24V DC internal power header
- 12-19V DC back panel power connector
- 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

<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 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](http://www.intel.com/design/chipset/hdaudio.htm)

<sup>3</sup> 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

<sup>4</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.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR

PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life-saving, or life-sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

All products, dates, and figures specified are preliminary based on current expectations, and are subject to change without notice. Availability in different channels may vary.

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

