

PRODUCT BRIEF

# DC53427HYE

Intel® NUC Kit



INTEL® vPRO™  
TECHNOLOGY  
.....  
2 Mini DisplayPorts\*  
.....  
USB 3.0 | HDMI\*  
.....  
GIGABIT LAN

The Shape that Fits the Future.





## Ultra Compact. Ultra Impact.

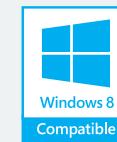
A revolution in ultra-compact device design, Intel® NUC packages a fully scalable, computing solution in the smallest possible form factor, complete with the Intel® Core™ i5 vPro™ processor. This new generation computing device provides a flexible, customizable engine to drive digital signage, kiosks, and intelligent computing for small spaces, or anywhere else you can imagine. Intel NUC also has triple display<sup>1</sup> capabilities for multiple monitoring and display, along with Intel® vPro™ technology which lets your IT service provider remotely manage or repair your system. With that kind of power and size, you'll rethink what's possible. Because the only thing more amazing than Intel® technology is what you'll do with it.

### Superior processing and graphics

Visibly smart graphics using the 3rd generation Intel® Core™ i5-3427U processor equipped with the integrated Intel HD4000 graphics to provide amazing performance and visually stunning graphics across a triple display configuration.

### Advanced technologies

Based on the 3rd generation Intel® Core™ vPro™ processor, you'll get embedded security that helps keep threats out, user identities and credentials safe, and clients and data protected<sup>2</sup>. If that wasn't enough, this processor is also responsive to your users' computing needs, while delivering the manageability you've come to expect from Intel vPro technology.



Think you know what small can do? Think again.

## Power, Capabilities, and Performance in Four Inches Square



4" (11 cm)



4" (11 cm)

### HIGHLIGHTED FEATURES

- 1 Intel Core i5-3427U processor supporting Intel vPro technology and Intel® Small Business Advantage
- 2 Intel® QS77 Express chipset
- 3 Dual Mini DisplayPorts\* supporting DP 1.1a and one HDMI\* port supporting HDMI 1.4a for triple display capability
- 4 Intel® Gigabit LAN
- 5 Front Panel USB 3.0 port
- 6 Dual USB 2.0 ports
- 7 19 V, 65 W DC power connector
- 8 Dual SO-DIMM sockets for memory expandability up to 16 GB



# Intel® NUC Kit DC53427HYE TECHNICAL SPECIFICATIONS

## PROCESSOR

- Intel® Core™ i5 3427U Processor (1.8 GHz with turbo capability to achieve 2.8 GHz, Dual-Core processor with 3 MB smart cache)
- Supports Intel® HyperThreading Technology
- Supports Intel® 64 architecture<sup>3</sup>

## CHIPSET

- Intel® QS77 Express Chipset

## GRAPHICS

- Intel® HD Graphics 4000
- Two Mini DisplayPorts and One HDMI port supporting triple independent display capability

## PERIPHERAL CONNECTIVITY

- Integrated Intel 10/100/1000 Network Connection
- Four Hi-Speed USB 2.0 ports (two back panel ports and two additional ports via internal header)
- One Super Hi-Speed USB 3.0 front panel port

## EXPANSION CAPABILITIES

- Dual mini-PCIe\* slots for mSATA and other peripheral expansion capability<sup>4</sup>

## MEMORY VOLTAGE

- 1.5 V and 1.35 V

## SYSTEM BIOS

- 128 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
- Fast Boot BIOS
- Optimized POST for almost instant-on access to PC from power on

## SYSTEM MEMORY

- Dual-channel DDR3 with two connectors for 1600/1333/1066 MHz memory support (16 GB max)

## HARDWARE MANAGEMENT FEATURES

- Processor fan speed control
- System chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

## INTEL® PRO 10/100/1000 NETWORK CONNECTION

- Low-power design

## EXPANSION CAPABILITIES

- One PCI Express\* half-mini card connector
- One PCI Express full-mini card connector

## AUDIO

- Intel® High Definition Audio<sup>5</sup> (Intel® HD Audio) via HDMI 1.4a and DisplayPort 1.1a outputs supporting 8 channel (7.1) digital audio

## JUMPERS AND FRONT-PANEL CONNECTORS

### Front-Panel Connectors

- Reset, HDD LED, Power LEDs, power on/off
- Front-panel Hi-Speed USB 2.0 headers

## MECHANICAL CHASSIS SIZE

- 4.59" x 4.41" x 1.55"
- 116.6mm x 112.0mm x 39.0mm

## BOARD SIZE

- 4" x 4"
- 101.6mm x 101.6mm

## BASEBOARD POWER REQUIREMENTS

- DC Power 19 V, 65 W

## ENVIRONMENT OPERATING TEMPERATURE

- 0° C to +50° C

## STORAGE TEMPERATURE

- 20° C to +70° C



Look for the Intel® NUC with Intel Inside® at [www.intel.com/NUC](http://www.intel.com/NUC)

## REGULATIONS AND SAFETY STANDARDS

### United States

UL 60950-1

### Canada

CAN/CSA-C22.2 No. 60950-1

### Europe

(Low Voltage Directive 2006/95/EC)  
EN 60950-1

### International

IEC 60950-1

### EMC Regulations (Class B)

#### United States

FCC CFR Title 47, Chapter I, Part 15, Subparts A, B

#### Canada

ICES-003

#### Europe

(EMC Directive 2004/108/EC)  
EN 55022 and EN 55024

#### Australia/New Zealand

EN 55022

#### Japan

VCCI V-3, V-4

#### South Korea

KN-22 and KN-24

#### Taiwan

CNS 13438

#### International

CISPR 22

### Environmental Compliance

#### Europe

Europe RoHS (Directive 2011/65/EU)

#### China

China RoHS (MII Order #39)

<sup>1</sup> Requires two mini DisplayPort capable monitors.

<sup>2</sup> The Intel® Core™ processor utilities bundle includes Intel® Integrator Assistant, Intel® Integrator Toolkit, Intel® Express Installer and Intel® Express Bios Update.

<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. See <http://developer.intel.com/technology/intel64/index.htm> 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.

<sup>5</sup> Intel® High Definition Audio requires a system with an appropriate Intel® chipset and a motherboard with an appropriate codec and the necessary drivers installed. System sound quality will vary depending on actual implementation, controller, codec, drivers, and speakers. For more information about Intel® HD Audio, refer to [www.intel.com/design/chipsets/hdaudio.htm](http://www.intel.com/design/chipsets/hdaudio.htm)

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Actual Intel® Desktop Board may differ from the image shown.

