



**PRODUCT BRIEF** 

# D54250WYKH Intel® NUC Kit







CONSUMER INFRARED SENSOR

GIGABIT LAN





The Shape that Fits the Future.



## can do? Think again.

### Ultra Compact. Ultra Impact.

A revolution in ultra-compact device design, this new Intel® NUC packs more features, including support for 2.5" drives, into an innovative small form factor. This fully scalable, computing solution comes complete with the latest 4th generation Intel® Core™ i5 processor. The Intel NUC provides a flexible, customizable engine to drive home theater PCs, media server PCs, and intelligent computing for small spaces, or anywhere else you can imagine. The D54250WYKH SKU of Intel NUC has many useful features including four USB 3.0 ports, an infrared sensor, a headphone/microphone jack, Mini HDMI\* and Mini DisplayPort\* video interfaces, and extra space to accommodate 2.5" HDD or SSD drives to support a variety of home or small office usages, Additional SKUs of the D54250WYKH family include power cord options for multiple countries. With that kind of power, size, and versatility, 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

The D54250WYKH is equipped with the 4th generation Intel® Core™ i5-4250U processor with Intel® Turbo Boost Technology 2.01, automatically allowing processor cores to safely run faster than the base operating frequency for short durations to maximize performance. It also features visibly smart graphics using Intel® HD Graphics 5000 to provide amazing performance and visually stunning graphics for immersive gaming, media editing with Intel® Quick Sync Video, and HD playback with Intel® Clear Video HD Technology (Intel® CVT HD).

#### Advanced technologies

Based on the 4th generation Intel® Core™ processor, you'll get ultra-responsive performance in a highly secure platform. Intel® Rapid Start Technology² ensures you are quickly up and running, and you'll stay up to date with Intel® Smart Connect Technology.3 Also, with Intel® Smart Response Technology4 you'll get SSD-like performance from your Intel NUC-based system. 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

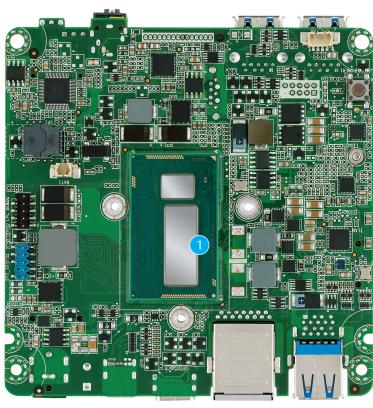
#### HIGHLIGHTED FEATURES

- 1 Intel Core i5-4250U processor
- 2 Two SO-DIMM sockets for memory expandability up to 16 GB
- 3 Dual PCle\* mini card connectors for flexible support of wireless and SSD configurations
- 4 1x SATA port for connection to
- 2.5" HDD or SSD

- 6 Dual rear Panel USB 3.0 ports
- 7 Intel® Gigabit LAN
- 8 19V, 65 W DC power connector
- 9 Dual front panel USB 3.0 ports
- 10 Consumer infrared sensor
- 11 Headphone/microphone jack







4" (11 cm)

## Intel® NUC Kit D54250WYKH TECHNICAL SPECIFICATIONS

#### **PROCESSOR**

- Intel® Core™ i5 4250U Processor (1.3 GHz with turbo capability to achieve 2.6 GHz, Dual-Core processor with 3 MB smart cache)
- Supports Intel® Hyper-Threading Technology<sup>5</sup>
- Supports Intel® 64 architecture<sup>6</sup>

#### **GRAPHICS**

- Intel® HD Graphics 5000
- One Mini DisplayPort\* 1.2 supporting ultra-high definition 4K displays and multiple monitor functionality
- One Mini HDMI\* 1.4a port

#### 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)
- Two additional Hi-Speed USB 2.0 ports via internal header

#### MEMORY VOLTAGE

• 1.35 V

#### 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

<sup>1</sup> Requires a system with Intel® Turbo Boost Technology. Intel Turbo Boost Tech-

nology 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

<sup>2</sup> Requires a select Intel® processor, Intel® software and BIOS update, and a

3 Intel® Smart Connect Technology requires a select Intel® processor, Intel®

Solid-State Drive (SSD) or hybrid drive. Depending on system configuration,

software and BIOS update, Intel® Wireless adapter, and Internet connectivity.

configuration, your results may vary. Contact your system manufacturer for

<sup>4</sup> Intel® Smart Response Technology requires a Intel® Core™ processor, select

Intel® chipset, Intel® Rapid Storage Technology software version 12.5 or higher,

and a solid state hybrid drive reporting at least 16 GB capacity and supporting

SATA-IO hybrid information feature. Depending on system configuration, your

Solid-state memory or drive equivalent may be required. Depending on system

your results may vary. Contact your system manufacturer for more information.

Intel® Visual BIOS

http://www.intel.com/go/turbo

more information.

• Intel® Express BIOS update support

#### **FAST BOOT BIOS**

 Optimized POST for almost instant-on access to PC from power on

#### SYSTEM MEMORY

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

#### HARDWARE MANAGEMENT FEATURES

- Processor 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 connector7
- One PCI Express full-mini card connector<sup>7</sup>
- 1x SATA port for connection to 2.5" HDD or SSD

#### AUDIO

- Intel® HD Audio® 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

- 4.59" x 4.41" x 1.95"
- 116.6mm x 102.0mm x 49.5mm

#### **BOARD SIZE**

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

#### BASEBOARD POWER REQUIREMENTS

- DC Power 12 19 V, 65 W
- Power Cord Options (Types B, E, and G)

#### **ENVIRONMENT OPERATING TEMPERATURE**

• 0° C to +50° C

#### STORAGE TEMPERATURE

■ -20° C to +70° C

#### 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 IFC 60950-1

United States

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

EMC REGULATIONS (CLASS B)

Canada

ICES-003

Europe

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

Australia/New Zealand

FN 55022

lapan

VCCI V-3, V-4

South Korea

KN-22 and KN-24

Taiwan

CNS 13438

International

CISPR 22

#### **ENVIRONMENTAL COMPLIANCE**

Еигоре

Europe RoHS (Directive 2011/65/EU)

China

China RoHS (MII Order #39)

<sup>5</sup> Available on select Intel® Core™ processors. Requires an Intel® HT Technologyenabled 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
- 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.
- 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/desion/chioset/hdaudio.htm

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

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



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results may vary. Contact your system manufacturer for more information.

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