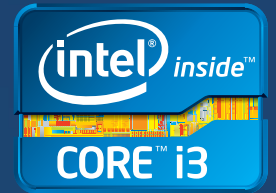
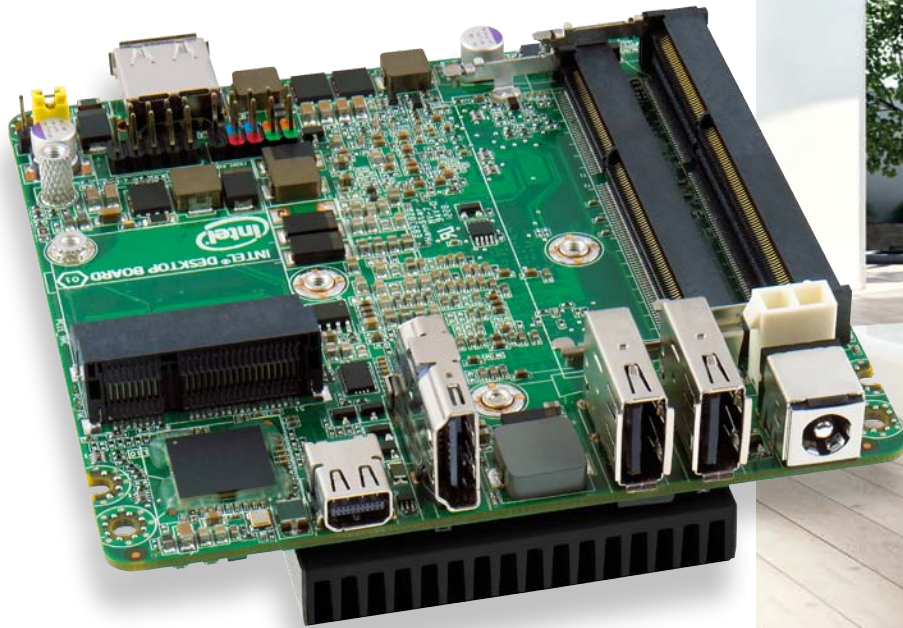


Intel® Desktop Board D33217CK



Next Unit of Computing by Intel®

- Superior processing and graphics
- Stunningly small form factor
- Advanced Technologies

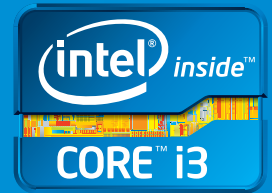


PRODUCT BRIEF



Next Unit of Computing by Intel®

with Intel® Desktop Board D33217CK



Think you know what small can do? Think again.

It's one thing to power your digital display and transfer video blazingly fast. It's another to do all that and more with a miniscule, intelligent powerhouse of a computing device. Which is why we invented the Intel® Next Unit of Computing (NUC). At a diminutive 4"×4"×2" form factor and equipped with the Third Generation Intel® Core™ i3 processor, it delivers stunning visuals and responsive performance from a pocket-sized solution. What's even more amazing, that such a small device can offer so much power in an expandable, customizable package. Dramatically increase data transfer rates and transform device interconnectivity with Thunderbolt™ technology. Get a difference in performance you can truly see and feel.

Superior processing and graphics

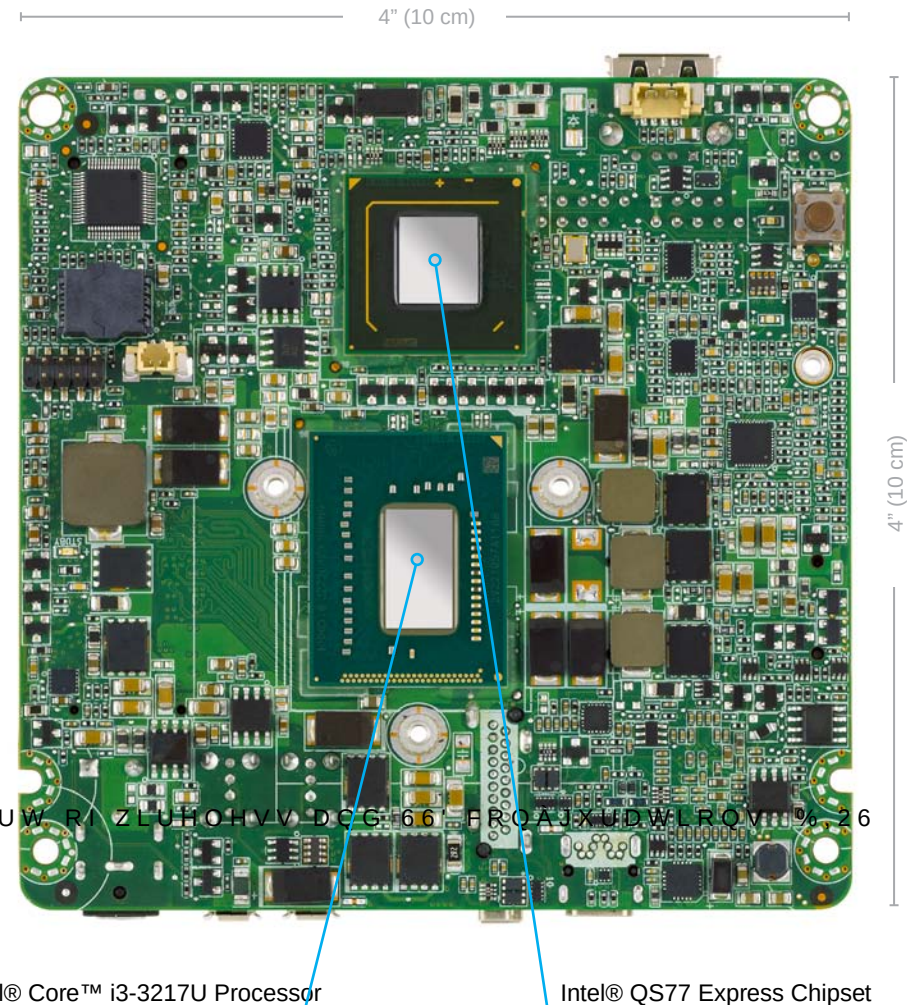
Visibly smart graphics using the 3rd generation Intel® Core™ i3-3217U processor deliver amazing performance and visually stunning graphics.

Stunningly small form factor

The 4"×4"×2" form factor unlocks a world of potential design applications, from digital signage and kiosks to portable innovations.

Advanced technology

The D33217CK features Intel's Thunderbolt™ technology transforming device interconnectivity, dramatically increasing transfer performance with bi-directional 10 Gbps speed, and offers daisy chaining to multiple devices, two SO-DIMM sockets for expandability upto 16 GB memory, WZR 3 & , H PLQL FDUG FRQQHFWRUV IRU ÁH[LEOH VXSSRUW RI ZLUHOHV DQG 66 FRQAJXDWLROV 26 vault technology, fast boot and Intel® Visual BIOS. The NUC also supports Intel® Anti-Theft™ Technology providing hardware intelligence designed to protect your device and its data if its lost or stolen.



Intel® Desktop Board D33217CK

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1 × USB 2.0 connector on the front panel

2 × Internal USB 2.0 via 2 × 5 header

2 × PCIe mini slots
(1 × half-length & 1 × full/half-length)

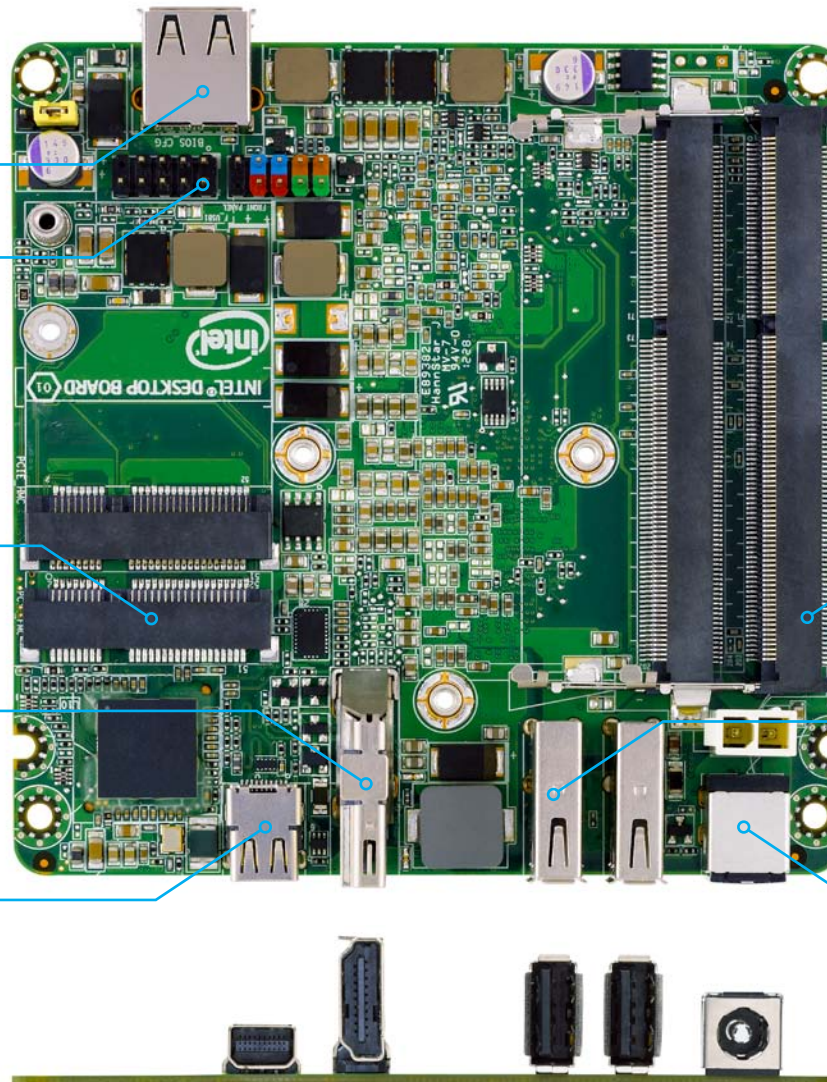
HDMI connector

Intel® Thunderbolt port
for extreme connectivity and transfer rates

Dual channel SODIMM DDR3
1333/1600 MHz

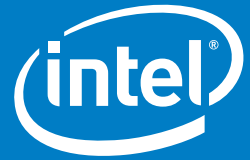
2 × USB 2.0 connectors on back panel

19V DC Power Input (external power supply)



Intel® Desktop Board D33217CK

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PROCESSOR

Processor Support

- Intel Core i7 Processor (1.8 GHz, Dual Core processor with 3 MB smart cache)

CHIPSET

- Intel S Express Chipset

GRAPHICS

- Intel HD Graphics
- HDMI Port supporting HDMI 1.4 standard
- Thunderbolt port supporting display port capability

PERIPHERAL CONNECTIVITY

- Three Hi-Speed USB 3.0 ports (two back panel ports and one front panel port)

EXPANSION CAPABILITIES²

2000PDRRUP

- capability

SYSTEM BIOS

- Intel Visual Bios
- Mb Flash EEPROM with Intel Platform Innovation Framework for EFI Plug and Play
- Fast Boot BIOS - Optimized POST for almost instant-on access to PC from power on

SYSTEM MEMORY¹

- Memory Capacity
- Dual-channel DDR3 with two connectors for 1333/1600 MHz memory support (16 GB max)
- Memory Voltage
- V and V

HARDWARE MANAGEMENT FEATURES

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

THUNDERBOLT CONNECTOR

- Gb/s bi-directional and dual protocol for data and display

AUDIO

- Intel High Definition Audio Intel HD Audio via one HDMI 1.4a output and/or via one Thunderbolt connector (DisplayPort 1.1a) supporting 8-channel (7.1) digital audio

INDICATORS AND CONTROLS

- HDD LED Power LED
- Power on/off

MECHANICAL

Board Size

- mm mm

Baseboard Power Requirements

- DC Power V Watt

ENVIRONMENT

Operating Temperature

- C to C

Storage Temperature

- C to C

COMPLIANCE WITH REGULATIONS AND STANDARDS

Safety Regulations

- UL/CSA
- EN 60950-1
- IEC 60950-1
- NOM-019-SCFI-1998
- GOST-R

EMC Class B Regulations

- CISPR 22
- CISPR 24
- FCC 47 CFR Part 15, Subpart B
- ICES-003
- EN 55022
- EN 55024
- EN 61000-3-2
- EN 61000-3-3
- IEC/EN 61000-4 Series
- VCCI V-3
- KN-22
- KN-24
- CNS 13438

ENVIRONMENTAL COMPLIANCE

- Europe RoHS
- China RoHS

1 WARNING: Altering PC memory frequency, voltage and/or latency may: (i) reduce system stability and useful life of the system, memory and processor; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. Intel has not tested, and does not warrant, the operation of the memory. EHVQGG LWW VSHFLÀFDWLRQV ,QWHO DVVXPHV QR LI XVHG ZLWK DOWHUHG FORFN IUHTXHQFLHV DQG purpose. Check with memory manufacturer for warranty and additional details.

2 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 WKKH V\VWHP FRQÀJXUDWLRQ DQG RSHUDWLQJ V\VWHP.

3 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 GSHQGLQJ RQ \RXU KDUGZDUH DQG VRIWZDUH intel.com/technology/intel64/index.htm for more information.

4 Intel products are not intended for use in medical, life-saving, or life-sustaining DSSOLFDFWLRQV ,QWHO PD\ PDNH FKDJHV WR RYH page, without notice.

5 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.

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

7 Requires an Intel® WiDi enabled system and Intel WiDi enabled receiver device. 1080p and 1080i playback only available on 2 Intel® Core™ i7 processor-based PCs with built-in visuals enabled, and compatible receiver device and media player, and supporting Intel WiDi software and graphics driver installed. Consult your PC manufacturer. For more information, see www.intel.com/go/widi.

8 Intel, Intel Core, Pentium, and Celeron are trademarks of Intel Corporation in the U.S. and other countries.

*Other names and brands may be claimed as the property of others.

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