Intel® NUC
D33217CK

NUC by Intel®

- Superior processing and graphics
- Stunningly small form factor
- Advanced Technologies
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® 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 up to 16 GB of memory, two PCIe* mini-card connectors for flexible support of wireless and SSD configurations, BIOS 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® NUC D33217CK

Features and Benefits

- Dual channel SODIMM DDR3 1333/1600 MHz
- Intel® Thunderbolt port for extreme connectivity and transfer rates
- 19V DC Power Input (external power supply)
- 2 × USB 2.0 connectors on back panel
- HDMI connector
- 2 × PCIe mini slots (1 × half-length & 1 × full/half-length)
- 1 × USB 2.0 connector on the front panel
- 2 × Internal USB 2.0 via 2 × 5 header
- 1 × USB 2.0 connector on the front panel
Intel® NUC D33217CK
Technical Specifications

PROCESSOR
Processor Support
• Intel® Core™ i3 3217U Processor (1.8 GHz, Dual Core processor with 3 MB smart cache)
• Supports Intel® 64 architecture

CHIPSET
• Intel® QS77 Express Chipset

GRAPHICS
• Intel® HD Graphics 4000
• HDMI Port supporting HDMI 1.4a standard
• Thunderbolt port supporting display port capability

PERIPHERAL CONNECTIVITY
• Three Hi-Speed USB 2.0 ports (two back panel ports and one front panel port)

EXPANSION CAPABILITIES
• One full length mini-PCIe slot supporting mSATA capability
• One half length mini-PCIe slot with dual USB 2.0 ports routed

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

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

SYSTEM MEMORY
Memory Capacity
• Dual-channel DDR3 with two connectors for 1333/1600 MHz memory support (16 GB max)

Memory Voltage
• 1.5V and 1.35V

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
• 10 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
• 4”×4” (101.6 mm×101.6 mm)

Baseboard Power Requirements
• OC Power 19V, 65 Watt

ENVIRONMENT
Operating Temperature
• 0°C to +50°C
• -20°C to +70°C

ENVIRONMENTAL COMPLIANCE
Europe RoHS
China RoHS

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COMPLIANCE WITH REGULATIONS AND STANDARDS

Safety Regulations
UL/CSA 60950-1
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 61000-3-2 Series
EN 61000-3-3
VCCI V-3
KN-22
KN-24
CNS 13438

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