

NUC8i3CYSM - Dual-Core i3 8GB System

The Next Big Thing in a small package

The Simply NUC8i3CYSM is a great home or small-business computer with discrete graphics in a cost-, power-, and space-efficient package. Perfect for video editing, video rendering, graphics editing, serious high-end business applications, and running multiple applications at the same time. And when work is done and it's time to play, the Crimson Canyon systems are the perfect entry-level casual gaming machines with their AMD Radeon 540 discrete mobile graphics, and the small size means you can take it with you for gaming or video editing on the go.

All of this in a small 4" x 4" x 2" sized package which can mount behind your monitor or be unobtrusively located in plain sight due to its small size. And the active cooling system adjusts as needed to provide quiet during light loads where it isn't needed as much, and barely audible cooling when more is needed.

Intel and AMD come together at last

The Simply NUC8i3CYSM combines a new Intel Core-i3 processor with the AMD Radeon 540 GPU in a unique way to maximize the communications between the two chips on a carrier that also has the GPU GDDR5 graphics memory. This new concept maximizes the performance allowing lower power chips to perform as well as higher wattage parts in a typically desktop configuration.

The Simply NUC8i3CYSM supports up to two 4K @ 60Hz monitors, as well as a 7.1 surround sound digital audio stream through the HDMI video link.

Cut the cords, not Performance

The Simply NUC8i3CYSM comes with Intel® 802.11ac wireless, called Gigabit wireless, for connectivity right out-of-the-box. This makes it simple to immediately access files in the cloud, and with built-in Bluetooth 5, you can easily connect wireless peripherals like headsets and keyboards.

Highlighted features

- 8th Gen Intel® Dual-Core i3
- AMD Radeon™ 540 discrete graphics
- 8GB LPDDR4-2400 memory
- 1TB 2.5" SATA HDD
- Full-size SDXC card slot
- Intel® Optane™ Memory ready
- Dual HDMI 2.0 supporting 4K @ 60Hz
- Intel® Gigabit LAN
- Intel® Dual Band Wireless-AC
- Intel® Bluetooth 5
- Four USB 3.0 Ports. One w/Charging
- Digital Audio 7.1 Surround Sound
- HD Audio over 3.5mm Headset Jack
- Multi-color Front panel power button
- Consumer IR receiver
- Kensington lock support
- 19V DC Jack (90 watt power adapter)

Customization

- One M.2 2242/2280 slot
- Supports functional Lids



Simply NUC Services

You can order this NUC in your various configurations, as well as your corporate OS Image loaded and ready to deploy.

Technical Specifications

Processor

- Intel® i3-8121U processor (2.2 GHz to 3.2 GHz Turbo, Dual Core, 4MB Cache, 15W TDP)

Graphics

- AMD Radeon™ 540 discrete graphics with 2GB GDDR5 graphics memory
- Two HDMI 2.0b ports (both 4K @ 60Hz)
- HDCP 2.2 on all ports

System Memory

- 8GB LPDDR4-2400, 1.1V
- Not upgradeable

Storage Capabilities

- 1TB SATA HDD pre-installed
- One SATA 3 port for connection to 2.5" HDD, SSHD, or SSD (up to 9.5 mm thickness)
- One M.2 slot, 2242/2280 supporting PCIe or SATA SSD
- SDXC slot with UHS-I support

Peripheral Connectivity

- Intel® Gigabit LAN i219-V
- Four Super-Speed USB 3.0 ports on Type-A connectors (two on back panel and two on front panel including one charging port)
- Intel® Dual Band Wireless-AC 9560 (802.11ac), 2x2, up to 867 Mbps
- Intel® Bluetooth 5
- Consumer infrared receiver

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
- Intel® Visual BIOS
- Intel® Express BIOS update support

Audio

- Up to 7.1 surround audio via HDMI
- Stereo Headset jack (TRRS) on the front panel

Baseboard Power Requirements

- 19V, 90W laptop-style AC-DC power adapter

Mechanical Chassis Size

- 4.6" x 4.4" x 2.04"
- 117 mm x 112 mm x 52 mm

Hardware Management Features

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

Front Panel Header

- Reset, HDD LED, Power LEDs, power on/off

Expansion Capabilities (under Lid)

- Internal dual USB 2.0 header
- Front Panel header
- CEC header

Certification and Regulations

Product Safety Regulations and Standards

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

Environment Operating Temp

- 0° C to +40° C
- Non-condensing Humidity

Storage Temperature

- -20° C to +60° C

EMC/RF Regulations and Standards (Class B)

- CISPR 32
- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- ICES-003
- EN 55032
- EN 55024
- ETSI EN 300 328
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 301 893
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- VCCI V-2, V-3, V-4
- KN-32
- KN-24
- CNS 13438

Environmental Regulations

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS

Certified Operating Systems

- Windows 10 64-bit (Pro & Home)
- Windows 10 IoT Enterprise - (64-bit only) CBB and LTSC
- Windows Server 2016
- Various Linux including: Ubuntu, Mint, openSUSE, etc (Contact Simply NUC for specifics)