NUC10i3FNK - Dual-Core i3 Slim Chassis

Perfect for use at home

Stream 4K video, edit media, work from home, or finish your homework. All at a size you can tuck away in a drawer. With Frost Canyon you will stream premium movies and experience high fidelity audio and immersive 4K Ultra HD video powered by Intel® UHD Graphics. Frost Canyon also has responsive performance for home office and school applications, and the ability to transfer files with high-speed connection options. This Frost Canyon features a 10th Gen Intel® Core™ i3 processor making it an affordable media player for the whole family.

10th Gen Processing Power

Featuring the latest 10th Gen Intel® Core™ processors and support for up to 64 GB of high speed DDR4 RAM, you have more CPU power than ever in a 4x4 form factor. Combine this with Intel® UHD Graphics, Thunderbolt™ 3, DisplayPort, and HDMI capability for the optimal visual experience and up to three 4K displays.

Watch, work, & game in 4K

Intel® UHD Graphics provide a brilliant 4K experience for home or the office. You can watch theater-quality videos or grab a game controller and answer the call of duty. You also have the performance you need to create content without having to wait as your video and images render. And Frost Canyon adds quick charging capability to get you going faster than ever.

Cut cords, not the performance

Access your digital life out of the box with the latest Intel® Wi-Fi 6 and Bluetooth 5 technology. Connect your Intel® NUC to a WiFi device for rich visuals and audio without the clutter of cables. And the quad-mic array makes for a great virtual personal assistant experience from anywhere in your home.

Highlighted features

- 10th Gen Intel® Core™ i3
- Intel® UHD Graphics
- Two DDR4-2666 SO-DIMM Sockets
- M.2 slot supports PCI or SATA SSDs
- Intel® Optane™ Memory ready
- SDXC card slot (UHS-II)
- HDMI 2.0a supporting 4K
- Thunderbolt 3 (supports Alt-DP)
- Intel® Gigabit LAN
- Intel® Wi-Fi 6
- Intel® Bluetooth 5
- Five USB 3.1 Gen 2 Ports (10Gb/s) (one charging)
- Digital Audio 7.1 Surround Sound
- Far-field quad-array microphone
- Internal Dual-Band Antennas
- Consumer IR receiver
- Kensington lock support
- 19V DC Jack (12-19V operation)
- VESA Mount Kit

Customization

- Supports DDR4 RAM 4GB-64GB
- Supports M.2 SSD 128GB-2TB
- Two USB 2.0 headers

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® Core™ i3-10110U processor (2.1 GHz with 4.1GHz Turbo, Dual Core, Hyper-Thread, 4 MB Smart Cache, 25W TDP)

Graphics
- Intel® UHD Graphics
- One HDMI 2.0a port
- USB Type-C port with DisplayPort 1.2
- Max 3x 4K @ 60Hz displays

System Memory
- Two DDR4-2666 SO-DIMM sockets, 64GB Max, 1.2V

Storage Capabilities
- One M.2 socket supporting 22x42 or 22x80 M.2 SSDs, SATA or PCIe, 2TB Max.
- Intel® Optane™ Memory ready

Peripheral Connectivity
- Intel® Gigabit LAN i219-V
- Three USB 3.1 Gen2 Type-A ports (two back; one front)
- Two USB 3.1 Gen2 Type-C ports (one back; one front with charging)
- Two additional Hi-Speed USB 2.0 ports via internal header
- Intel® Wi-Fi 6 AX200 (802.11ax), 2x2, up to 2.4 Gbps
- Bluetooth 5
- Thunderbolt 3 on USB Type-C port
- Consumer infrared receiver on front

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
- Front headset jack
- Quad-array far-field beam-forming microphones in front panel

Front Panel Header
- Reset, HDD LED, Power LEDs, power on/off

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

Baseboard Power Requirements
- 19V, 90W AC-DC power adapter with detachable power cord.
- 12-19V DC input range
- International cords available

Mechanical Chassis Size
- 4.6" x 4.4" x 1.5"
- 117 x 112 x 38 mm

Expansion Capabilities
- Two USB 2.0 ports on two 1x4 headers
- Functional or decorative lid support
- HDMI 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

EMC/RF Regulations and Standards (Class B)
- CISPR 52
- FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E
- ICES-005
- EN 55052
- ETSI EN 500 528 501 489-1
- ETSI EN 501 489-17
- EN 62511
- AS/NZS 2772.2 4268
- VCCI V-2, V-5, V-4
- KN-52
- CNS 15458
- EN 55024
- ETSI EN
- ETSI EN 501 895
- AS/NZS
- KN-24

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

Environment Operating Temp
- 0° C to +50° C
- Non-condensing Humidity

Storage Temperature
- -40° C to +60° C

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