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

# NUC8i3PNF - Quad-Core i3 Fanless

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# Stay Cool, Clean and Silent

The NUC8i3PNF, built with 8th generation Intel® Core ™ i3 processors and fanless "Porcoolpine" chassis, delivers the performance and innovation for small space and embedded solutions without the use of a blower or fan. Whether you're creating a digital kiosk, deploying intelligent vending, or refreshing enterprise PCs, the NUC8i3PNF can get the job done easily. With the option of Intel® Wireless-AC and BlueTooth 5 and the option to run Windows® 10, Linux or another OS, the NUC8i3PNF delivers the flexibility to build the exact solution your situation needs.

intelligent vending machines have images that really pop and draw people in. This unit also features display emulation which enables various options including headless operation, a second virtual display, and persistent displays. Equipped with USB 3.0 on the internal header, Porcoolpine allows for additional expansion IO if more USBs, Ethernet or Serial ports are needed. We can configure to your specific needs. And Porcoolpine is tested for 24/7 operation ensuring solutions that are built to last.

# Highlighted features

- 8th Gen Intel® Core™ i3
- Intel® UHD Graphics 620
- Two DDR4-2666 SO-DIMM Sockets
- M.2 slot supports PCIe or SATA SSDs
- 2.5" SATA drive bay
- Intel® Optane™ Memory ready
- Dual HDMI 2.0 supporting 4K @ 60Hz
- Intel® Gigabit LAN with AMT Support
- Intel® Wireless-AC 9560
- Intel® Bluetooth 5.1
- Three USB 3.1 Gen2 Ports
- One USB 2.0 Port
- Digital Audio 7.1 Surround Sound
- Legacy Serial on a DE-9M connector
- RP-SMA Dual-Band Antennas
- Front panel power button
- 19V DC Jack (12-24v operation)
- VESA Mount Kit
- 0-45C Operating Temperature

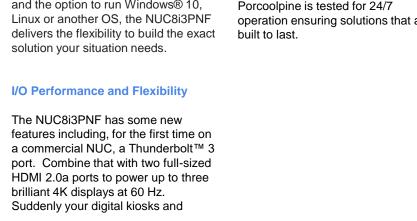
# Customization

- Supports DDR4 RAM 4GB-64GB
- Supports M.2 SSD 128GB-2TB
- Supports 2.5 inch SATA 128GB-2TB
- Optional Back IO Panel
- Two USB 2.0 and One USB 3.0 Internal Headers
- Consumer Electronics Control (CEC)
   Internal Header





# Technology Provider Platinum 2020



# **Technical Specifications** Graphics • Intel® Core™ i3-8145U • Intel® HD Graphics 620 • Two HDMI 2.0a ports with HDCP 2.2 processor (1.6GHz with 4.1GHz Turbo, Quad Core, Hyper-thread, • Built-in CEC for both ports 6MB Smart Cache, 15W TDP) • Support for a 3<sup>rd</sup> monitor via Thunderbolt 3

Peripheral Connectivity

• One back USB 2.0 port

• Intel® Bluetooth 5.1

disableable for security

Connector

• Intel® Gigabit LAN w/ AMT support

Intel® Dual Band Wireless-AC vPro

• Wireless-AC 9560 is removable or

Baseboard Power Requirements

with detachable power cord.

Mechanical Chassis Information

• 19V, 90W AC-DC power adapter

Three Super-Speed USB 3.1 Gen2 ports

(one on back panel and two on front panel)

• One back USB 3.1 Gen 2 ports on Type-C

### Storage Capabilities • One M.2 socket supporting

- 22x80 M.2 SSDs, SATA or PCIe, Intel<sup>®</sup> Optane<sup>™</sup> Memory
- One SATA 3 port for connection to 2.5" HDD or SSD

### Audio

Processor

- Up to 7.1 surround audio via HDMI
- Hardware Management Features • AMT supported Ethernet
- Voltage and temperature sensing

- Controller
- ACPI-compliant power management control
- 7.5" x 4" x 3" (190 mm x 102 mm x 76 mm) VESA Mount Kit (Plate and Screws)
  - 1.5kg (3.4lbs) Fully-Assembled with
  - Antennas (no 2.5in drive or power adapter)

# Certification and Regulations

Product Safety Regulations and Standards • IEC 60950-1 • UL 60950-1	<ul> <li>EMC/RF Regulations and Standards (Class B)</li> <li>CISPR 52</li> <li>FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E</li> </ul>		Envir • Rol- • WE • Chir
• EN 60950-1 • CAN/CSA-C22.2 No. 60950-1	<ul> <li>ICES-005</li> <li>EN 55052</li> <li>ETSI EN 500 528</li> <li>501 489-1</li> </ul>	• EN 55024 • ETSI EN	Certif • Win • Win
Environment Operating Temp • 0° C to +45° C	ETSI EN 501 489-17     501 895     EN 62511     AS/0/25 2772 2	• ETSI EN	-64) • Win • Vari
Non-condensing Humidity Storage Temperature	• AS/NZS 2772.2 4268 • VCCI V-2, V-5, V-4	• AS/NZS	Ubu (Coi spec
• -20° C to +70° C	• KN-52 • CNS 15458	• KN-24	

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

Technology

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# System Bios

(intel)

- 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

## Front Panel Header

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

# Expansion Capabilities

- One USB 3.0 port via a 1x10 header for optional I/O
- Two USB 2.0 ports on two 1x4 internal headers for optional I/O
- Optional Back IO Panel
- One Consumer Electronics Control header
- 2.5in Drive Mount for SATA drive

# ronmental Regulations

- HS Directive 2011/65/EU
- EEE Directive 2012/19/EU
- ina RoHS

# ified Operating Systems

- ndows 10 64-bit (Pro & Home)
- ndows 10 IoT Enterprise --bit only) CBB and LTSB
- ndows Server 2016
- rious Linux including: untu, Mint, openSUSE, etc ontact Simply NUC for ecifics)

