Intel® NUC 8 Rugged

WORKS WHERE YOU WORK.

Reliable performance in unreliable conditions.

intel CELERON inside

TOUGHNESS THAT NEVER CLOCKS OUT.

Intel® NUC 8 Rugged is a PC kit that's small on size but not on toughness or reliability. It features a fanless, ventless design to minimize particle intrusion, so it's built to survive environments most PCs can't—from a busy factory floor to a dusty warehouse. And even without a fan, it can operate in temperatures from 0-40˚C to thrive in severe in-the-field conditions.

Housed in a small chassis that's slim enough to fit almost anywhere, the NUC 8 Rugged is also available as a board-only option that can be easily integrated into your own digital solutions. It's powered by an Intel® Celeron® processor, making it the ideal PC solution to keep edge analytics, digital signage, or surveillance cameras up and running around the clock. And with a 3-year warranty, it's performance that's designed to last.

Intel® NUC 8 Rugged. Works where you need it to.

24x7

The Intel NUC 8 Rugged is built to last and qualified for 24x7 sustained operations—a critical feature for most IoT and commercial operations.

80% Executives who say IoT is critical to business success[1]

64B IoT devices predicted to be in operation by 2025[2]

15% Increase in customers for quick service restaurants who install digital signage[3]

FEATURES

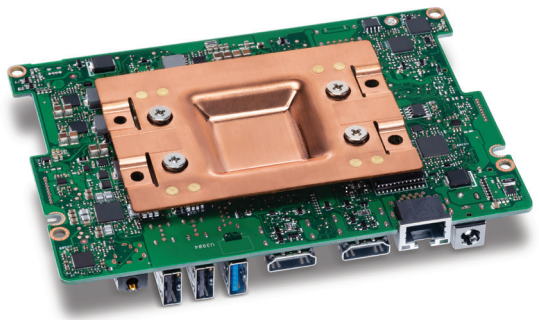
- Intel® Celeron® processor
- Fanless and ventless design
- Minimal dust intrusion
- Qualified for 24x7 operation
- Multiple mounting options
- Dual HDMI*
- 2 USB 3.0 ports
- 2 USB 2.0 ports
- Internal 4-lane eDP connector
- Intel® Wireless-AC
- Bluetooth*
- Intel® Gigabit LAN
- 3-year limited warranty

USAGES

- Digital signage
- Hospitals
- Medical clinics for mobile pedestal computing
- IoT
- Operator consoles in manufacturing environments
- Quick service restaurants
- Edge analytics

AVAILABILITY

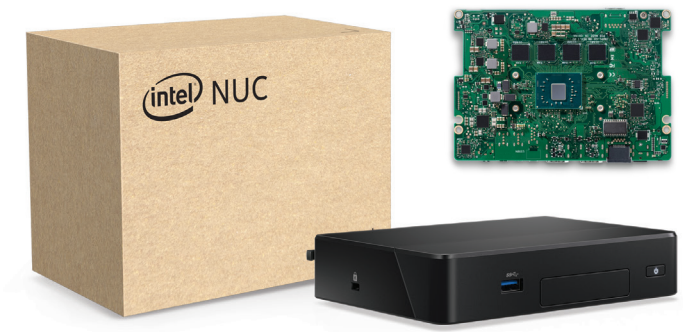
Intel® NUC Kit
Intel® NUC Board



INTEL® NUC 8 RUGGED KIT AND BOARD

Fanless and ventless, the Intel® NUC 8 Rugged isn't afraid to get a little dirty.

	Kit	Board
	NUCCCHKR	NUC8CCHB
Processor	Intel® Celeron® Processor N3350	
Graphics	Intel® HD Graphics 500	
Memory	4 GB RAM	
Storage	64 GB eMMC soldered-down; M.2 2280 key M slot for PCIe x4 NVMe or SATA SSD	
Mounting Options	VESA mounting holes, picture frame keyholes, zip-tie indentations, 3rd party DIN rail bracket, Kensington lock with base security	—
Other Features & Technology	Dual HDMI, Qualified for 24x7 operation; delayed AC start; DC overvoltage protection, DC cable strain relief, Internal 4-lane eDP connector, Front panel expansion bay, 3-year warranty	
Operating System	Supports Microsoft Windows* 10 Pro, Windows 10 IOT Enterprise, Compatible with various Linux distros	
What's Needed	22x80 PCIe x4 NVMe or SATA SSD, Operating System	—



INTEL® NUC 8 RUGGED KIT AND BOARD

Additional Technical Specifications

Processor
- Intel® Celeron® Processor N33501.1 GHz to 2.4 GHz Burst, Dual Core, 2 MB cache, 6W TDP

Graphics
- Intel® HD Graphics 500
- Dual HDMI (1x HDMI 2.0a, 1x HDMI 1.4)

Storage Capabilities
- 64 GB eMMC soldered-down
- M.2 2280 key M slot for PCIe x4 NVMe or SATA SSD

System Memory
- 4 GB RAM, dual-channel (soldered-down)

Peripheral Connectivity
- Intel® i211-AT 10/100/1000 Mbps RJ45 Ethernet
- Two USB 3.0 ports (one front panel port and one back panel port)
- Two USB 2.0 ports (back panel)
- 1x internal USB 3.0 header
- 2x internal USB 2.0 headers
- EDID emulation
- Internal 4-lane eDP connector
- Intel® Wireless-AC 3268 M.2 card pre-installed w/internal antennas (kit SKUs only)

System Bios
- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V5.0b, SMBIOS2.5
- Intel® Visual BIOS
- Intel® Express BIOS update support

Hardware Management Features
- Voltage and temperature sensing
- ACPI-compliant power management control

Expansion Capabilities
- 1x internal USB 3.0 header
- 2x internal USB 2.0 headers
- 1x RS232 serial port header
- Dual HDMI with built-in CEC
- External 3rd party antennae capability through back panel cut-outs (cables provided)

Audio
- Up to 7.1 multichannel digital audio via HDMI
- Analog audio stereo output jack

Front Panel Header
- Vcc5/1A, 5Vsby/2A, 3.3Vsby/1A

Mechanical Chassis
- 6.06" x 4.25" x 1.25"
- 154 mm x 108 mm x 32 mm
- Kensington Lock ready
- 4 mounting options including VESA
- Antennae punch out panels
- DC cable strain relief attachment

Mechanical Board Size
- 5.74" x 4.01"
- 146 mm x 102 mm

Baseboard Capabilities
- 19VDC 65W power supply adapter with geo-specific AC cords
- 12 – 24VDC rear jack, internal 2x2 connector
- 5 year 24x7 sustained operation qualified[4]
- Delayed AC start
- DC transient voltage suppression

Environment Operating Temperature
- 0° C to +40 C

Storage Temperature
- -20° C to +40° C

Safety Regulations and Standards
- IEC/EN/UL 60950-1
- IEC/EN/UL 62368-1

EMC/RF Regulations and Standards
- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- EN 300 440
- EN 301 489-1/3/17
- EN 62311
- AS/NZS 4268
- AS/NZS 2772.2
- ARPANSA

Environmental Regulations
- EU RoHS
- China RoHS
- Taiwan BSMI RoHS
- REACH

See the power of small and rugged at **www.intel.com/NUC**

[1] https://techjury.net/stats-about/internet-of-things-statistics/

[2] https://techjury.net/stats-about/internet-of-things-statistics/

[3] https://www.qsrmagazine.com/outside-insights/where-should-your-restaurant-stand-digital-signage

[4] Sustained operation for Intel® NUC products is defined as 24x7 operation for 5 years with 50% system utilization on average, with an expected service rate of 1% per year during this period.

Intel products are not intended for use in medical, life-saving, or life-sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

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.

Actual Intel® NUC kit may differ from the image shown.

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