Onyx

Simply NUC Business NUC – NUC13OXv9 / NUC13OXKv9

Onyx v9

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Unmatched Performance for Modern Business

Onyx is the latest and greatest in ultra-small form factor compute power from Simply NUC, driving unmatched performance for modern business from the desk to the edge to the cloud and back. Powered by Intel's 13th Gen Raptor Lake 13900H processor and kept cool with Simply NUC's Dual Exhaust Cooling solution, the Onyx NUC features a Core i9 option on the high-end, a new performance level never achieved before in a 4x4 chassis. With support for up to 64GB of DDR5-5600 memory, up to 16TB of storage, and off-the-charts benchmark results, Onyx delivers all the power, without the tower.

Onyx - Defined by You,
Built for You

Onyx may be a Simply NUC product, but it was defined by our customers, and built to meet your needs, with key features like dual HDMI 2.1, dual USB 4.0 Type-C, and a 2.5Gb Ethernet port to name a few. The Onyx NUC gives you the ability to expand its feature set to match your specific usage needs, with a rear I/O expansion panel on the full height chassis and a replaceable lid, giving you a plethora of additional I/O options such as USB, HDMI, LAN, or serial ports. From office workstations, to on-prem heavy edge computing, to robotics and sophisticated IoT networks, Onyx v9 has the flexibility and performance options to perfectly serve your usage requirements.

Performance with Uncompromised Security and Reliability

Powered by Intel's 13th Gen Raptor Lake 13900H processor, featuring 14 cores and 20 threads, Onyx packs outsized performance into a small chassis. Raptor Lake processors feature Intel Thread Director, using machine learning to schedule tasks on the right core at the right time, preventing background tasks from slowing you down, and keeping the focus on the primary workload. Select Onyx SKUs also feature Intel vPro technology allowing for remote management of your 24x7 tested computer fleet and secure communications across networks. Upgrade to Onyx v9 today, and enjoy uncompromised and highly reliable processing power.

Features

- Intel® Core™ i9-13900H Processor
- Intel® Iris® Xe Graphics
- Intel® vPro® Technology
- 2x DDR5-5200 SO-DIMM Sockets
- 1x M.2 22x80 M-key supporting PCIe x4 Gen4 NVMe
- 1x 2.5" drive bay supporting SATA SSDs (Full height chassis only)
- MicroSD card slot
- TPM (Infineon 2.0)
- 2x HDMI 2.1 TMDS
- 2x USB 4 Type-C (Alt-DP)
- Intel® Wi-Fi 6E + Bluetooth 5.2
- 1x Intel 2.5Gb LAN
- 2x USB 4 Type-C
- 3x USB 3.2 Gen2 Type-A
- 1x USB 2.0 Type-A
- 3.5mm stereo headset jack
- Kensington lock support
- VESA mount included
- 19V, 120W power supply included
- Extended service support (3-year)

Customization

- Primary storage up to 8TB Gen4 NVMe
- Secondary 2.5" drive up to 8TB SATA SSD (Full height chassis only)
- Memory up to 64GB
- Replaceable lid for I/O expansion
- Rear panel expansion (Full height chassis only)
- OS options: Windows 11 Home & Pro, Windows IoT, Ubuntu

Simply NUC

THINK BIG, go mini

Technical Specification

Processor	Intel® Core™ i9-13900H Processor with vPro® | 6P+8E/20T | P-Cores: up to 5.4 GHz - E-Cores: up to 4.1 GHz | 24MB Intel® Smart Cache | 45W TDP
Graphics	Intel® Iris Xe Graphics up to 1.50GHz | 4x 4K Displays Supported via: 2x HDMI 2.1 TMDS + 2x USB-C (Alt-DP) | 1x 8K Display supported via USB-C (Alt-DP)
Memory	Dual DDR5-5600 SODIMMs 1.2V | 64GB Max
Storage	1x M.2 22x80 socket supporting PCIe x4 Gen4 NVMe from 128GB to 8TB or SATA SSD from 128GB to 2TB | 1x 2.5" bay supporting SATA SSDs (128GB to 8TB)
Peripherals	Intel Wi-Fi 6E AX210 + Bluetooth 5.2 | 1x Intel 2.5Gb LAN (i225-V) | 1x Front USB 3.2 Gen2 Type-A | 1x Front USB 2.0 Type-A | 2x Rear USB 4 Type-C | 2x Rear USB 3.2 Gen2 Type-A
Chassis	117x112x54mm (Full height) / 117x112x37mm (Slim Height) | Kensington lock support | VESA mount kit support
Expansion	1x USB 2.0 header | 1x USB 3.0 header |1x COM header (RS-232/422/485) | 1x Front panel header| Replaceable lid | Rear expansion panel (Full Height chassis only)
Audio	3.5mm Front Stereo Headset Jack
Power	12-24V$_{DC}$ Input Supply Range | 19V$_{DC}$, 120W Power Supply Included

Certifications and Regulations

Safety Regulations and Standards	J62368-1 (2020) | GB 17625.1-2012 | GB 4943.1-2011 | GB/T 9254.1-2021 (Class A) | KCC | UL 62368-1: 2019 | EN IEC 62368-1:2020
EMC/RF Regulations & Standards	FCC CFR Title 47, Chapter I, Part15, Subparts B, C, E | ETSI EN 301 489-1 V2.2.3 (2019-11) | Draft ETSI EN 301 489-17 V3.2.5 (2022-08) | EN 55032:2015 | EN 55035:2017 | EN IEC 61000-3-2:2019 | EN 61000-3-3:2013 | ETSI EN 300 328 V2.2.2 (2019-07) | EN 61000-3-3:2013
Environmental Regulations	RoHS Compliant | REACH Compliant
Certified Operating Systems	Windows 11 (Pro and Home) | Windows IoT | Linux (Ubuntu)
Environmental Operating Temp etc.	0°C to +40°C | Non-Condensing Humidity