

Intel® NUC Enterprise Edge Compute Built with Scale Computing



11th Generation Intel® Core™ i7-1185G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
3.0GHz@28W, up to 4.8GHz Turbo, 4 Cores,
8 Threads, 12MB L3 Cache



11th Generation Intel® Core™ i5-1145G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
2.6GHz@28W, up to 4.4GHz Turbo, 4 Cores,
8 Threads, 8MB L3 Cache



- Up to Quad Extended Displays:
 - Dual HDMI 2.0b (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt ports (incl. DP 1.4a and USB 4) via back panel type C connectors
- 512GB, 1TB, 2TB, 4TB, or 8TB M.2 NVMe SSD
- Intel® Wi-Fi 6 AX201 on M.2 slot, supporting 802.11ax and Bluetooth 5.2 w/internal antennas
- Dual Intel® 2.5Gb Ethernet ports (RJ45)
- Discrete TPM 2.0
- 16GB, 32GB, or 64GB DDR4
- 2x front and 1x rear USB 3.2 Gen 2 type A ports
- 1x Thunderbolt 4, 1x Thunderbolt 3, 1x rear type A and 2x internal, USB 2.0 headers (all USB ports with individual USB power control)
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- Qualified for 24x7 operation
- Delayed AC start; Auto CMOS reset; DC transient voltage suppression
- 12 – 20VDC ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVP
- TDP settings down-configurable to 12W
- Matte textured chassis, replaceable lid, Kensington lock with base security, Cable locking arm
 - 0° ~40° C external ambient operating temperature tolerance
 - 19VDC power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included
 - 2.5" drive bay (7mm)
- Individual brown-box packaging
- Three-year availability, Three-year warranty

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Software-Defined Storage

All components—storage, virtualization, software and hardware—interface directly through the SC//HyperCore hypervisor and storage layers to create an ideal computing platform that can be deployed anywhere — from the data center to the edge of the network.

- Enable configurable SSD priority allocation at the individual virtual disk-level and intelligent data block priority based on block I/O heat mapping
- Discover all block storage devices— including flash-based solid-state disks (SSDs) and conventional spinning disks (SATA or SAS)
- Aggregate block storage devices across all nodes of SC// HyperCore into a single managed pool of storage
- Allow sophisticated data redundancy, load balancing intelligence, and I/O-tiered prioritization
- Efficiently use flash storage when available for tiered data placement

Software-Managed Compute

SC//HyperCore is a lightweight, type 1 (bare metal) hypervisor that is directly integrated into the OS kernel and leverages the virtualization offload capabilities provided by modern CPU architectures.

Specifically, SC//HyperCore is based on components of the KVM hypervisor, which has been part of the Linux mainline kernel for many years and has been extensively field-proven in large-scale environments.

- Single, unified, and redundant system
- All-in-one architecture makes it easy to deploy fully integrated, highly available virtualization right out of the box
- Operates as a redundant and elastic private “cloud”
- Scale seamlessly with automatic incorporation of additional nodes
- Handle hardware failures gracefully with minimal effort or disruption

Real-time Monitoring of Resources and Health

SC//Fleet Manager consolidates real-time conditions and resource utilization for all your SC//HyperCore clusters. Instead of having to navigate to individual cluster UIs, SC//Fleet Manager gives users the ability to look at every cluster from a single pane of glass.

- Centrally manage all deployments
- Drill down from full fleet to individual VMs
- Proactive alerting, highlighting areas that need attention
- Single Sign-on (Microsoft & Google supported)
- Firmware upgrade management
- Monitor individual hardware devices and health within a cluster
- Monitor VM status, Disk Usage and CPU utilization from the SC//Fleet Manager interface
- One-click access to SC//HyperCore