



# Breakthrough Performance at the Edge

**Intel® NUC Enterprise Edge Compute  
Built with Scale Computing**

Get the performance of Intel® NUC as a small, powerful edge solution that can be deployed almost anywhere



# A Leap Forward in Edge Performance

The Intel® NUC Enterprise Edge Compute Built with Scale Computing combines the powerful performance of Intel® NUC Mini PCs with Scale Computing's expertise in edge computing and hyperconverged solutions. The result is a small, powerful, and efficient HCI edge solution that can be deployed almost anywhere and delivers the latest in Intel® NUC performance and reliability.

Intel® NUC Mini PCs are optimized for the small spaces and low power requirements of edge deployments, and Scale Computing's lightweight SC//Platform makes it easy to simultaneously run

legacy and modern applications on the same infrastructure. Entire fleets of clusters can be managed with SC//Fleet Manager, the cloud-hosted console, and SC//HyperCore makes it possible to manage storage, compute, and virtual machines from a single pane of glass.

With the combined benefits of Intel® NUC and the SC//Platform, the solution gives businesses the simplicity, efficiency, and enterprise-ready virtualization they need for a wide range of deployments at the edge.

## Ideal for Enterprise



## Key Features

- 11th Gen Intel® Core™ processors available with Intel vPro® technology (Intel® Core™ i5 or i7 processors)
- Intel® Iris™ Xe graphics support immersive collaboration on up to four 4K displays
- 2x Thunderbolt™ ports (DP & USB 3.2, Type-C) for fast data transfers
- Intel® Ethernet Controller i225-LM, up to 2.5 Gbps
- Intel® Wi-Fi 6 AX201 (M.2)
- 2x SSD M.2 slots, 22x80 key M & M.2 22x42 key B
- Expandable & Dual LAN/Six USB
- Matte textured chassis, replaceable lid, Kensington lock with base security, DC cable strain relief
- Intel® Watchdog Timer Utility to autonomously increase application uptimes, Auto CMOS reset, Display Emulation
- 3-year product availability and three-year warranty

# Built with Intel® Core™ i7 vPro® processors Intel® NUC Enterprise Edge Compute Built with Scale Computing



	Kits
	NUC11TNHv70L (Dual LAN)
Processor	11th Generation Intel® Core™ i7-1185G7 processor with Intel vPro® Technology 3.0 GHz@28W, up to 4.8 GHz Turbo, 4 Cores, 8 Threads, 12 MB L3 Cache
Graphics	Intel® Iris® X <sup>e</sup> Graphics, Up to 96 EUs
Memory	16GB, 32GB, or 64GB DDR4
Storage	512GB, 1TB, 2TB, 4TB, or 8TB M.2 NVMe SSD
Networking	Dual Intel® i225-LM 2.5Gb Ethernet ports (RJ45)
Wi-Fi	Intel® Wi-Fi 6 AX201 (Intel vPro® capable)
Other Features & Technology	2x HDMI 2.0b ports   2x Thunderbolt™ ports (incl. DP 1.4a and USB 4.0)   Intel® i225-LM Ethernet port 3x USB 3.2 Gen 2 type A ports   1x USB 2.0 type A port   Discrete TPM 2.0   Qualified for 24x7 operation   Quad display support   Delayed AC start; Auto CMOS reset; DC input voltage protection   3-Year Limited Warranty
Geo-Specific Power Cord	Geo-specific to IEC320-C5 connector
Operating System	SC//HyperCore



# Built with Intel® Core™ i5 vPro® processors Intel® NUC Enterprise Edge Compute Built with Scale Computing



	Kits
	NUC11TNHv50L (Dual LAN)
Processor	11th Generation Intel® Core™ i5-1145G7 processor with Intel vPro® Technology 2.6 GHz@28W, up to 4.4 GHz Turbo, 4 Cores, 8 Threads, 8 M
Graphics	Intel® Iris® Xe Graphics, Up to 80 EUs
Memory	16GB, 32GB, or 64GB DDR4
Storage	512GB, 1TB, 2TB, 4TB, or 8TB M.2 NVMe SSD
Networking	Dual Intel® i225-LM 2.5Gb Ethernet ports (RJ45)
Wi-Fi	Intel® Wi-Fi 6 AX201 ( Intel vPro® capable)
Other Features & Technology	2x HDMI 2.0b ports   2x Thunderbolt™ ports (incl. DP 1.4a and USB 4.0)   Intel® i225-LM Ethernet port 3x USB 3.2 Gen 2 type A ports   1x USB 2.0 type A port   Discrete TPM 2.0   Qualified for 24x7 operation   Quad display support   Delayed AC start; Auto CMOS reset; DC input voltage protection   3-Year Limited Warranty
Geo-Specific Power Cord	Geo-specific to IEC320-C5 connector
Operating System	SC//HyperCore





# Intel® NUC Enterprise Edge Compute

## Built with Scale Computing



### 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 integrates directly 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 of your SC//HyperCore clusters. Instead of having to navigate to individual cluster UIs, SC//Fleet Manager gives administrators 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



### Additional Technical Specifications

#### Processors

##### NUCI1TNHv70L

- Intel® Core™ i7-1185G7 processor with Intel vPro® Technology (3.0 GHz@28W, up to 4.8 GHz Turbo, 4 Cores, 8 Threads, 12 MB L3 Cache)

##### NUCI1TNHv50L

- Intel® Core™ i5-1145G7 processor with Intel vPro® Technology (2.6 GHz@28W, up to 4.4 GHz Turbo, 4 Cores, 8 Threads, 8 MB L3 Cache)

#### Storage

- 512GB, 1TB, 2TB, 4TB, or 8TB M.2 NVMe SSD

#### System Memory

- 16GB, 32GB, or 64GB DDR4

#### Graphics

- Intel® Iris® Xe Graphics

#### Connectivity

- Dual HDMI 2.0b (4K@60 Hz), with built-in CEC per port
- Thunderbolt™ 4 port (incl. DP 1.4a and USB 4.0) and one Thunderbolt™ 3 port (incl. DP 1.4a and USB 4.0) on select SKUs
- Three USB 3.2 Gen2 type A ports
- One USB 2.0 type A port
- Intel® i225-LM 10/100/1000/2500 Mbps RJ45 Ethernet
- Dual LAN tall SKU: 2nd Intel® i225-LM Ethernet and two additional USB 2.0 ports on expansion module

#### System BIOS

- 256 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V5.0b, SMBIOS 2.5
- Intel® BIOS
- Intel® Express BIOS update support

#### Hardware Management Features

- Discrete TPM 2.0
- Voltage and temperature sensing
- ACPI-compliant power management control

#### Expansion Capabilities

- Two internal USB 2.0 headers (all USB ports with individual USB power control)
- Front panel header with Vcc5/1A, 5Vsby2A, 3.3Vsby1A
- Expansion bay with pre-punched bracket for adding 1 DB9 port, or other I/O ports, on tall chassis

#### Audio

- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports

#### Advanced Features

- Qualified for 24x7 operation
- Delayed AC start; Auto CMOS reset; DC input voltage protection

#### Operating System Compatibility

- SC//HyperCore
- Various Linux distros

#### Chassis

- 4.60" x 4.40" x 2.12"
- 117 mm x 112 mm x 54 mm

#### Power Requirements

- 12 – 20VDC ±5% input on rear jack, internal 2x2 power connector, with OVP/UVF
- 19VDC power supply adapter with geo-specific AC cords (IEC C5 connector)

#### Environment Operating Temperature

- 0° ~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

#### Energy Efficiency Regulations for Mini PCs

- US Energy Star and CEC
- EU ErP Directive
- China CEL
- South Korea E-standby
- Australia GEMS
- Israel MEPS
- Japan Energy Saving Act 2022年度基準: 15区分, 36.0kWh/年

Intel® Wi-Fi 6 (Gig+) products support optional 160 MHz channels, enabling the fastest possible theoretical maximum speeds (2402 Mbps) for typical 2x2 802.11ax PC Wi-Fi products.

Premium Intel® Wi-Fi 6 (Gig+) products enable 2-4x faster maximum theoretical speeds compared standard 2x2 (1201 Mbps) or 1x1 (600 Mbps) 802.11ax PC Wi-Fi products, which only support the mandatory requirement of 80 MHz channels.

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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