Wall Street Canyon

Intel® NUC 12 Pro – NUC12WSHi5/v5/v5L

Wall Street Canyon i5 Tall

NUC 12 Pro NUC12WSHi5/v5/v5L

A New Generation in Business Computing

As modern-day businesses grow and expand, their IT infrastructure must evolve with them and the all-new 12th Gen Intel® Core™ i5 processor is here to keep you at the forefront of technology. Whether operating computationally complex serial operations for machine learning or executing multiple threads simultaneously, the all-new hybrid core architecture dynamically adjusts utilization of its 12 cores to optimize performance to keep you ahead in the market. With support for up to 64GB of DDR4 memory, up to 16TB of storage, options for port expansion, and vPro on select SKUs, Wall Street gives you the configuration options you need to bring your IT deployments to the next level.

Intrinsic Diversity, Consistent Return

Hybrid working conditions are more prevalent than ever and Wall Street provides the versatility you need to be efficient both in the office and at home. The 4x4 size and lightweight design of Wall Street allows you to effortlessly transition between the two. The Iris Xe Graphics supports an 8K monitor for unmatched video quality for your home theater or content creation. Wall Street natively provides dual Thunderbolt 4 ports and four USB type-A ports to connect the peripherals you need, from printers to headsets or webcams. Further elevate your I/O with expansion lids or integrate an expansion panel in the 'H' chassis for extended functionality without increasing the form factor. The intrinsic diversity of Wall Street lets you customize your application while promising consistent performance return.

Invest in Wall Street and Elevate your Embedded Development

Streamline your embedded systems by integrating a serial port expansion panel to effortlessly operate within your industrial application and enjoy zero downtime with 24/7 and fault-tolerant operation with DC transient voltage suppression. Expand your networking capabilities with headless display and the additional LAN expansion to give your edge devices or embedded solutions network redundancy and security. Dual HDMI with persistent display functionality and dual Thunderbolt 4 ports can power four 4K displays simultaneously giving you superior video quality and flexibility to create immersive digital signage. Make the smart investment in Wall Street and elevate your designs today.

Features

- 12th Gen Intel® Core™ i5-1240P
  - (i5-1250P vPro Version)
- Intel® Iris® Xe Graphics
- TPM 2.0 (vPro Version Only)
- 2x DDR4-3200 SO-DIMM Sockets
- 1x M.2 22x80 M-key supporting PCIe x4 Gen 4 NVMe or SATA SSDs
- 1x M.2 22x42 B-Key supporting PCIe x1 Gen 3 or SATA SSDs (non-dual-LAN SKUs only)
- 2.5" drive bay supporting SATA SSDs
- 2x HDMI 2.1
- 2x Thunderbolt 4 (Alt-DP)
- 1x Intel® 2.5Gb LAN
- Intel® Wi-Fi 6E AX211 + Bluetooth 5.2
- 3x USB 3.2 Gen2 Type-A
- 1x USB 2.0 Type-A
- 7.1 multichannel digital audio via HDMI or Thunderbolt
- 3.5mm stereo headset jack
- Kensington lock support
- VESA mount included
- 24x7 operation
- 19V 120W Power supply included
- Extended service support (1-, 3-, 5-year)

Customization

- Primary storage up to 8TB Gen4 NVMe
- Secondary 2.5" drive up to 8TB SATA
- Memory up to 64GB
- Replaceable lid for I/O expansion
- Rear panel expansion (dual-LAN)
- OS options: Windows 11/10 (Home & Pro), Windows IoT, Ubuntu

Technical Specification

Processor	Intel® 12th Gen Core™ i5-1240P | 4P+8E/16T | P-Cores: up to 4.4GHz - E-Cores: up to 3.3GHz | 12MB Intel® Smart Cache | 35W TDP Or Intel® 12th Gen Core™ i5-1250P vPro® | 4P+8E/16T | P-Cores: up to 4.4GHz - E-Cores: up to 3.3GHz | 12MB Intel® Smart Cache | 35W TDP
Graphics	Intel® Iris® Xe Graphics | 4x 4K displays supported via 2x HDMI 2.1 + 2x Thunderbolt 4 Ports | 1x 8K display supported
Memory	Dual DDR4-3200 SODIMMs, 1.2V, up to 64GB
Storage	1x M.2 22x80 socket supporting PCIe x4 Gen 4 NVMe from 128GB to 8TB or SATA SSD from 128GB to 2TB | 1x M.2 22x42 socket (non-dual-LAN only) supporting PCIe x1 Gen3 NVMe from 128GB to 512GB or SATA SSD from 128GB to 512GB | 1x 2.5" drive bay supporting 2.5 Inch SATA SSDs from 64GB to 8TB
Peripherals	Intel Wi-Fi 6E AX211, 802.11ax | Bluetooth 5.2 | 1x 2.5Gb LAN (i225-LM – vPro, i225-V – non-vPro) | 2x Front USB 3.2 Gen2 type-A | 1x Rear USB 3.2 Gen2 type-A | 1x Rear USB 2.0 type-A | 2x Rear Thunderbolt 4
Chassis	117x112x54mm | Kensington lock support | VESA mount kit support
Expansion	2x USB 2.0 headers | Rear slot for I/O expansion or dual-LAN upgrade | Replaceable lid for I/O expansion
Audio	3.5mm front stereo headset jack | 7.1 multichannel digital audio via HDMI & Thunderbolt
Power	12-20V$_{DC}$ variable DC input | 120W 19V PSU supplied
Extra Features	Display emulation via HDMI (Virtual display, persistent display, headless display) | Delayed AC start | Auto CMOS reset | DC transient voltage suppression

Certifications and Regulations

Safety Regulations and Standards	IEC/EN/UL 60950-1 | IEC/EN/UL 62368-1
EMC/RF Regulations & 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
Certified Operating Systems	Windows 10 64-bit (Pro and Home) | Windows 10 IoT | Linux (Ubuntu)
Environmental Operating Temp etc.	0°C to +40°C