

# Wall Street Canyon

Intel® NUC 12 Pro – NUC12WSHi3



intel  
CORE™  
i3

i3

*Simply* NUC

# Wall Street Canyon i3 Tall

NUC 12 Pro NUC12WSHi3

## 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™ i3 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 10 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 and options for port expansion, 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 Intel UHD Graphics supports up to four 4K monitors 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™ i3-1220P
- Intel® UHD Graphics
- 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 90W 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



Intel® Partner Alliance  
Titanium Partner



THINK BIG, go mini



# Technical Specification

Processor	Intel® 12th Gen Core™ i3-1220P   2P+8E/12T   P-Cores: up to 4.4GHz - E-Cores: up to 3.3GHz   12MB Intel® Smart Cache   20W TDP
Graphics	Intel® UHD 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-V)   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 <sub>DC</sub> variable DC input   90W 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