



Main Features

- System 2U Rackmount
- Intel® Core™ processors (Series 2)
- HDD 12 Bays 3.5"
- 2 x NVMe SSD, 1 x M.2 2242 SATA SSD
- Display DP1.4 x1, HDMI® 2.0b x1, HDMI® 1.4 x1
- DDR5 up to 64GB
- 2 X 2.5GbE Intel® Ethernet
- Audio in/out/Mic
- PCIe Express x 16

Product Overview

The NViS6712 is powered by Intel® Core™ Series 2 processors, which is a LGA1700 P-core-only CPU series specifically designed for Edge use cases. It features up to 12 Performance-cores (P-cores) and supports Hyper-Threading technology, providing powerful multitasking performance with up to 24 threads. With single-core Turbo Boost reaching up to 6.0 GHz, L3 cache up to 36 MB, and 45W/65W/125W TDP, it effectively balances high performance with power control. The system supports up to 64 GB of DDR5 memory, which operates at a reduced voltage of 1.1V to save approximately 20% power. It also includes integrated Intel UHD Graphics 770, supporting multi-display output via DP 1.4, HDMI® 2.0b, and HDMI® 1.4. Coupled with a 12-bay storage design, the system offers a massive storage capacity particularly suitable for large-scale data storage and processing needs.

Specifications

Processor

- Intel® Core™ processors (Series 2) 12P
- Intel® Core™ Gen 14th/13th/12th support

Memory

- 2 x DDR5 SO-DIMM, ECC/Non-ECC support, up to 64G
 - Memory bus with data transfer rates 5600 MT/s (Core 7~9 series) and 4800 MT/s (Core 3~5series)
 - Support OOB ECC

Chipset

- Intel® R680E

I/O Interface Front

- 12 x Hot swappable 3.5" HDD bay
- 2 x USB 2.0 Type-A (per port output max. 500mA)

I/O Interface Rear

- 4 x USB 3.2, Type-A (per port output max. 900mA)
- 1 x DP 1.4 (8K30)
- 1 x HDMI® 2.0b (4K60)
- 1 x HDMI® 1.4 (4K24)
- 1 x Audio port (Line in/ Line out/ Mic)
- 2 x 2.5GbE RJ45 port
- 1 x GPIO 4in/2out (optional)

Expansion Slot

- 1 x PCIe 4.0 1 x16 slot or 2 x8
- 1 x PCIe 5.0 1 x16 slot (optional)

Storage

- 12 x Hot swappable 3.5" HDD, supports up to 26TB
- 2 x M.2 Key M 2280, supports PCIe 4.0 (NVMe)
- 1 x M.2 Key B 2242, supports SATA 3.0

Power Supply

- Single PSU 300W

Dimensions

- 479.4mm (W) x 88mm (H) x 560mm (D)

Environment

- Operating temperature:
 - Ambient with air flow: 0°C~40°C
 - Storage temperature: -20°C~70°C
- Relative humidity: 0%~90% (non-condensing)

Certifications

- CE approval
- FCC Class A
- CB/UL Option

Dimension Drawing

