

RUGGED FANLESS EMBEDDED COMPUTER

Nuvo-11000LP Series

Low-Profile Intel® Core™ Ultra 200S Fanless Embedded Computer

The low-profile member of the Nuvo-11000 platform. Same flagship Intel® Core™ Ultra 200S compute and rugged I/O in a slimmer 79 mm chassis, with a front-access hot-swappable 2.5" drive tray in place of the PCIe expansion Cassette.

PROCESSOR
 Intel® Core™ Ultra 200S

CHASSIS HEIGHT
 79 mm (Low Profile)

OPERATING TEMP
 -25°C to 70°C fanless

STORAGE
 Hot-swap 2.5" tray + RAID



● **LP = LOW PROFILE** • **79 MM CHASSIS & 3.36 KG** • **FRONT-ACCESS HOT-SWAP DRIVE TRAY** • **MEZIO® EXPANSION**



INTRODUCTION

The Nuvo-11000LP series is the low-profile configuration of Neosys' flagship rugged embedded computer, built on the Intel® Core™ Ultra 200S series platform. Powered by TSMC's advanced 3 nm process, the Core™ Ultra 200S processors offer up to 24 cores / 24 threads with an integrated neural processing unit (NPU) delivering AI compute up to 36 TOPS. Combined with DDR5-6400 memory and PCIe Gen5 support, it delivers a significant leap in computing power for industrial applications.

Unlike the Nuvo-11000E, the **LP variant trades the PCIe expansion Cassette for a slimmer 79 mm low-profile chassis** and a front-access **hot-swappable 2.5" HDD/SSD tray** (plus an internal 2.5" SATA port supporting RAID 0/1). This makes the LP ideal for space-constrained deployments and applications that prioritize fast, serviceable storage over add-on card expansion. It retains the platform's comprehensive I/O: up to 5x 2.5GbE and 1x GbE (optional PoE+), an optional 10GbE port, up to 8x USB 3.2 Gen2, 4-CH isolated DI / 4-CH isolated DO, and the Mezio® interface for flexible function expansion.

KEY FEATURES



Intel® Core™ Ultra 200S — 24C/24T, 35W/65W LGA1851, integrated NPU (up to 36 TOPS)



Rugged fanless — reliable -25°C to 70°C operation, MIL-STD-810H shock & vibration



Hot-swap 2.5" drive tray — front-access HDD/SSD + internal SATA, RAID 0/1 **LP EXCLUSIVE**



Low-profile 79 mm chassis — 240 × 225 × 79 mm, 3.36 kg **LP**



Up to 5x 2.5GbE + 1x GbE with optional PoE+ and optional 10GBASE-T Ethernet



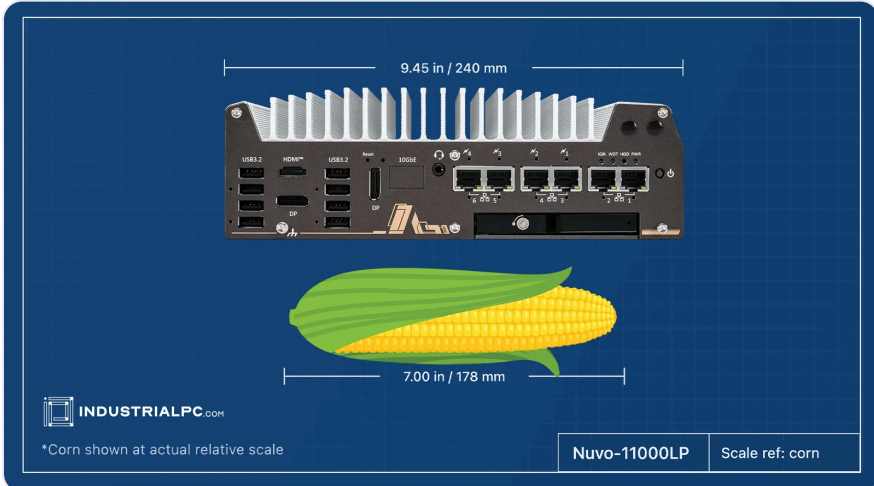
Mezio® interface + 2x mini-PCIe for easy, application-specific function expansion

SPECIFICATIONS

SYSTEM CORE		I/O INTERFACE	
Processor	Intel® Core™ Ultra 200S series (LGA1851), 35W & 65W TDP: - Intel® Core™ Ultra 9 285 / 285T - Intel® Core™ Ultra 7 265 / 265T - Intel® Core™ Ultra 5 245 / 245T	Ethernet	- Nuvo-11006LP: 5× 2.5GbE (I226-IT) + 1× GbE (I219-LM) - Nuvo-11002LP: 1× 2.5GbE (I226-IT) + 1× GbE (I219-LM) - Screw-lock connectors - Optional 1× 10GBASE-T (Nuvo-11006LP)
Chipset	- Intel® Q870 PCH (Nuvo-11006LP) - Intel® H810 PCH (Nuvo-11002LP)	PoE+	Optional IEEE 802.3at PoE+ PSE, Port 3–6, 100W total budget
Graphics	Integrated Intel® Xe LPG Graphics	USB	- Nuvo-11006LP: 8× USB 3.2 Gen2 - Nuvo-11002LP: 2× USB 3.2 Gen2 + 2× Gen1 + 4× USB 2.0
AI Engine	Integrated neural processing unit (NPU)	Isolated DIO	4-CH isolated DI + 4-CH isolated DO
Memory	Up to 96GB non-ECC DDR5-6400 (dual SODIMM)	Video	1× HDMI™, up to 3840×2160 2× DisplayPort, up to 4096×2304
AMT	Supports Intel® vPro / AMT 16.0 (Nuvo-11006LP only)	Serial	2× SW-programmable RS-232/422/485 (COM1/2) 2× 3-wire RS-232 (COM3/4)
TPM	Supports dTPM 2.0	Audio	1× 3.5mm mic-in / speaker-out
STORAGE		EXPANSION	
M.2 NVMe	1× M.2 2280 M-key (PCIe Gen5×4) NVMe SSD (Nuvo-11006LP)	MezIO®	1× MezIO® expansion port for Neosys MezIO® modules
2.5" Drive LP	1× hot-swappable 2.5" HDD/SSD tray (7mm) + 1× internal 2.5" SATA port, RAID 0/1	Mini-PCIe	2× full-size mini PCI Express sockets
POWER		Internal USB	1× internal USB 2.0 Type-A (Nuvo-11006LP)
DC Input	1× 3-pin terminal block, 8V–48V DC, optional ignition power control	ENVIRONMENTAL	
Remote / LED	1× 10-pin (2×5) wafer for remote on/off + status LED	Operating Temp	35W CPU: -25°C to 70°C* 65W CPU (as 35W TDP): -25°C to 70°C* 65W CPU (as 65W TDP): -25°C to 50°C*
MECHANICAL LP-SPECIFIC		Storage Temp	-40°C to 85°C
Dimensions	240 mm (W) × 225 mm (D) × 79 mm (H)	Humidity	10% to 90%, non-condensing
Weight	3.36 kg	Vibration	MIL-STD-810H, Method 514.8, Category 4
Mounting	Wall-mount (standard) or DIN-rail (optional)	Shock	MIL-STD-810H, Method 516.8, Procedure I
		EMC	CE/FCC Class A (EN 55032 & EN 55035)

* For sub-zero and over-60°C operation, a wide-temperature HDD/SSD/NVMe is required. For 10G LAN, operational up to 60°C ambient. Benchmarked using PassMark PerformanceTest. All specifications and photos subject to change without prior notice.

SIZE REFERENCE & DIMENSIONS



9.45 in / 240 mm

7.00 in / 178 mm

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*Corn shown at actual relative scale

Nuvo-11000LP Scale ref: corn

WIDTH

240 mm

9.45 in

DEPTH

225 mm

8.86 in

HEIGHT

79 mm

3.11 in

WEIGHT

3.36 kg

7.4 lb

ORDERING INFORMATION

MODEL NO.	DESCRIPTION
Nuvo-11002LP	Nuvo-11000LP with 1x 2.5GbE and 1x GbE
Nuvo-11006LP	Nuvo-11000LP with 5x 2.5GbE and 1x GbE
Nuvo-11006LP-PoE	Nuvo-11000LP with 4x PoE+ 2.5GbE, 1x 2.5GbE and 1x GbE
Nuvo-11006LP-PoE-10G	Nuvo-11000LP with 1x 10GBASE-T, 4x PoE+ 2.5GbE, 1x 2.5GbE and 1x GbE
Nuvo-11002LP-UL	Nuvo-11000LP with 1x 2.5GbE and 1x GbE. UL Certified
Nuvo-11006LP-UL	Nuvo-11000LP with 5x 2.5GbE and 1x GbE. UL Certified
Nuvo-11006LP-PoE-UL	Nuvo-11000LP with 4x PoE+ 2.5GbE, 1x 2.5GbE and 1x GbE. UL Certified
Nuvo-11006LP-PoE-10G-UL	Nuvo-11000LP with 1x 10GBASE-T, 4x PoE+ 2.5GbE, 1x 2.5GbE and 1x GbE. UL Certified

MEZIO® MODULES

Miokit-U5_4	MezIO® module with 4x USB 3.1 ports
Miokit-G4	MezIO® module with 4x GigE ports
Miokit-G4P	MezIO® module with 4x IEEE 802.3at PoE+ ports

OPTIONAL ACCESSORIES

PA-280W-ET2	280W AC/DC power adapter 24V/11.67A; 16AWG/100cm; cord-end terminals (recommended for 65W CPU, or 35W CPU with PoE+). Operating temp -30°C to 60°C.
PA-160W-OW	160W AC/DC power adapter 20V/8A; 18AWG/120cm; cord-end terminals (recommended for 35W CPU). Operating temp -30°C to 70°C.
Dmpbr-Nuvo5000_7000	Neosys' patented damping brackets assembly for Nuvo-5000/7000/9000/11000 series
DINRAIL-O	DIN-rail mount assembly for Nuvo-5000/7000/9000/11000 series
Fankit-25	Fan assembly for 1-slot Cassette, 25x25x10 mm
Cbl-W212F-W210F-23CM	Cable Wafer 2.0 Female 12P to 10P, length 23cm



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FULL PRODUCT PAGE

Configure your Nuvo-11000LP today

US-based support • 30 years in business • systems built & supported in Indianapolis

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The 2+1 Warranty — 3 Years of Coverage

2 Years Manufacturer | +1 Year Extended* — every Nuvo-11000LP from Industrial PC is backed by our 2+1 warranty.