



Nuvo-7000LP Series

Intel® 8th/ 9th-Gen Core™ i7/ i5/ i3 Fanless Controller with 6x GbE Ports, MezIO™ Interface and Low-profile Chassis



Key Features

- · Intel® 8th/ 9th-Gen Core™ i hexa-core 35W/ 65W LGA1151 CPU
- · Low-profile chassis with hot-swappable 2.5" HDD/ SSD tray
- · MezIO™ interface for easy function expansion
- · Rugged, -25°C to 70°C fanless operation
- Up to 6x GigE ports, supporting 9.5 KB jumbo frame
- M.2 2280 M key socket (Gen3 x4) supporting NVMe SSD or Intel® Optane™ memory
- · 4x USB 3.1 Gen2 ports and 4x USB 3.1 Gen1 ports
- VGA/ DVI/ DP triple independent display, supporting 4K2K resolution

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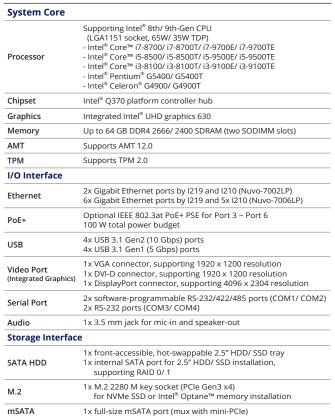
Introduction

The Neousys Nuvo-7000LP series is powered by Intel® 8th/ 9th-Gen Core™ i processors with up to 6-core/ 8-core architecture that offer a significant performance improvement over previous 6th or 7th-Gen platforms.

Nuvo-7000LP series is a derivative of Nuvo-7000 series that features the same level of ruggedness and versatility in a 79 mm low-profile chassis. In addition to effective fanless design, proprietary MezIO™ interface and plethora of on-board I/O interfaces, Nuvo-7000LP series features one front-accessible, hot-swappable HDD/ SSD tray which can be configured as RAID 0/1 when combined with the internal SATA port. It also leverages cutting-edge M.2 NVMe SSD technology for over 2000MB/s disk read/ write speed, or install an Intel® Optane™ memory for the ultimate system acceleration.

Neousys Nuvo-7000LP series consolidates the latest Intel® hexa/octa-core CPU, high-speed I/O interfaces, super-fast disk access and flexible storage configuration to form a high-performance ruggedized embedded controller. In addition, you can also take advantage of the built-in MezIO™ interface to add on modules for application-specific I/Os.

Specifications



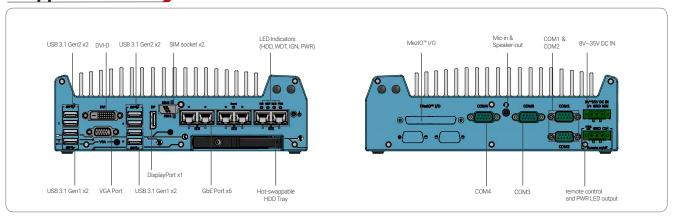
Expansion Bus	
Mini PCI Express	1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA)
M.2	1x M.2 2242 B key socket with dual front-accessible SIM sockets
Expandable I/O	1x MezlO™ expansion port for Neousys MezlO™ modules
Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
Remote Ctrl. & LED Output	1x 3-pin pluggable terminal block for remote control and PWR LED output
Mechanical	
Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
Weight	3.1 kg
Mounting	Wall-mounting (standard) or DIN-Rail mounting (optional)
Environmental	
Operating Temperature	with 35W CPU -25°C ~ 70°C ** with 65W CPU -25°C ~ 70°C */** (configured as 35W TDP) -25°C ~ 50°C */** (configured as 65W TDP)
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90%, non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
EMC	CE/FCC Class A, according to EN 55032 & EN 55024

^{*}For i7-8700 and i7-9700E running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature.

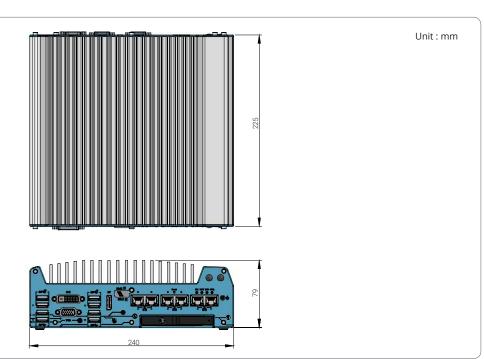
**For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



Appearance



Dimensions



Ordering Information

Model No.	Product Description	
Nuvo-7002LP	Intel [®] 8th/ 9th-Gen Core™ fanless controller with 2x GbE ports, MezIO™ interface and low-profile chassis	
Nuvo-7006LP	Intel [®] 8th/ 9th-Gen Core™ fanless controller with 6x GbE ports, MezIO™ interface and low-profile chassis	
Optional IEEE 802.3at PoE+ for GbE ports 3 ~ 6		

Optional Accessories

PA-160W-OW	160W AC/DC power adapter 20V/8A;18AWGx4C/120cm, cord end terminals for terminal block, operating temperature: -30 to 70°C.	
DINRAIL-O	DIN-rail mounting assembly for Nuvo-7000 series	
Dmpbr-Nuvo5000_7000 Neousys' patented damping bracket assembly for Nuvo-7000E/DE/P		
ETHY-100-2008S	Ethernet I/O expansion module with 8 isolated digital inputs and outputs	
ETHY-100-2604S	Ethernet I/O expansion module with 8 isolated digital inputs and 4 relays outputs (coming soon)	
MezIO™ Modules		
MezIO [™] -C180	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports	
MezIO [™] -C181	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports	
MezIO [™] -D220	MezIO™ module with 8-CH isolated digital input and 8-CH isolated digital output	
MezIO [™] -D230	MezIO™ module with 16-CH isolated digital input and 16-CH isolated digital output	
MezIO [™] -V20-EP	MezIO™ module with ignition power control function for in-vehicle application	
MezIO [™] -U4	MezIO™ module with 4x USB3.0 ports	
MezIO [™] -G4	MezIO™ module with 4x GigE ports	
MezIO [™] -G4P	MezIO™ module with 4x IEEE 802.3at PoE+ ports Only Nuvo-7006LP-PoE supports MezIO-G4P	