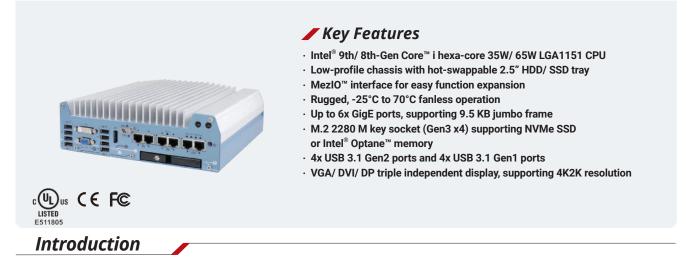


Nuvo-7000LP Series

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



The Neousys Nuvo-7000LP series is powered by Intel[®] 9th/ 8th-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.

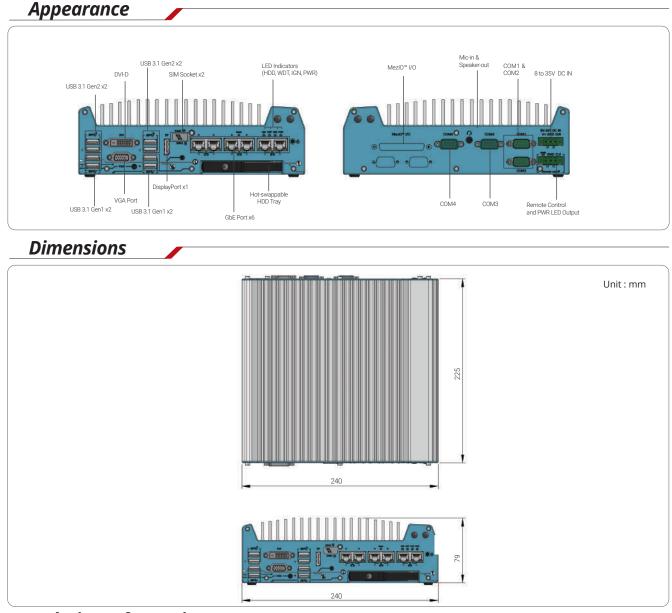
Neousys Nuvo-7000LP series consolidates the latest Intel[®] hexa/octa-core CPU, high-speed I/O interfaces, super-fast disk access and flexible storage configuration to form a high-performance ruggedized embedded controller. In addition, you can also take advantage of the built-in MezIO[™] interface to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

Specifications

System Core		Expansion Bus	
-	Supporting Intel [®] 9th/ 8th-Gen CPU (LGA1151 socket, 65W/ 35W TDP)	Mini PCI Express	1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA)
Processor	- Intel [®] Core [™] i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T - Intel [®] Core [™] i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T - Intel [®] Core [™] i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T - Intel [®] Pentium [®] G5400/ G5400T - Intel [®] Celeron [®] G4900/ G4900T	M.2	1x M.2 2242 B key socket with dual front-accessible SIM sockets
		Expandable I/O	1x MezIO [™] expansion port for Neousys MezIO [™] modules
		Power Supply	
Chipset	Intel [®] Q370 platform controller hub	DC Input	1x 3-pin pluggable terminal block for 8 to 35V DC input
Graphics	Integrated Intel [®] UHD graphics 630	Remote Ctrl. & LED Output	1x 3-pin pluggable terminal block for remote control and PWR LED output
Memory	Up to 64 GB DDR4 2666/ 2400 SDRAM (two SODIMM slots)	Mechanical	
AMT	Supports AMT 12.0		
TPM	Supports TPM 2.0	Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
I/O Interface		Weight	3.1 kg
Ethernet	2x Gigabit Ethernet ports by I219 and I210 (Nuvo-7002LP) 6x Gigabit Ethernet ports by I219 and 5x I210 (Nuvo-7006LP)	Mounting Environmental	Wall-mount (standard) or DIN-rail mount (optional)
PoE+	Optional IEEE 802.3at PoE+ PSE for Port 3 ~ Port 6 100 W total power budget	Operating	with 35W CPU -25°C ~ 70°C **
USB 3.1	4x USB 3.1 Gen2 (10 Gbps) ports 4x USB 3.1 Gen1 (5 Gbps) ports	Temperature	with 65W CPU -25°C ~ 70°C */** (configured as 35W TDP) -25°C ~ 50°C */** (configured as 65W TDP)
Video Port (Integrated Graphics)	1x VGA, supporting 1920 x 1200 resolution 1x DVI-D, supporting 1920 x 1200 resolution 1x DisplayPort, supporting 4096 x 2304 resolution	Storage Temperature	-40°C ~ 85°C
		Humidity	10%~90% , non-condensing
Serial Port	2x software-programmable RS-232/422/485 ports (COM1/ COM2) 2x RS-232 ports (COM3/ COM4)	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Audio	1x 3.5 mm jack for mic-in and speaker-out	Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
Storage Interfac	e	EMC	CE/FCC Class A, according to EN 55032 & EN 55024
SATA HDD	1x front-accessible, hot-swappable 2.5" HDD/ SSD tray 1x internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1	Safety	UL62368-1, IEC62368-1
			00 running at 65W mode, the highest operating temperature shall be limited to 50°C an
M.2	1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD or Intel [®] Optane™ memory installation	thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS obtain higher operating temperature. ** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.	
mSATA	1x full-size mSATA port (mux with mini-PCle)		

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Nuvo-7000LP Series



Ordering Information

Model No.	Product Description
Nuvo-7002LP	Intel [®] 9th/ 8th-Gen Core™ fanless controller with 2x GbE ports, MezlO™ interface and low-profile chassis
Nuvo-7006LP	Intel [®] 9th/ 8th-Gen Core™ fanless controller with 6x GbE ports, MezlO™ 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 mount assembly for Nuvo-7000 series		
Dmpbr-Nuvo5000	2_7000 Neousys' patented damping brackets assembly for Nuvo-7000E/DE/P/ Nuvo-7000LP		
ETHY-100-2008S	08S 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™ Module	25		
MezIO [™] -C180	MezIO [™] module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports		
MezIO [™] -C181	MezlO™ 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 USB 3.1 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		