

Rugged Embedded



Nuvo-8000 Series

Intel® 9th/8th-Gen Core™ i7/ i5/ i3 Expansion Box-PC with up to 5 PCIe/ PCI Slots



✓ Key Features

- · Supports Intel® 9th/ 8th-Gen Core™ i7/ i5/ i3, Pentium® and Celeron® LGA1151 CPU
- Up to five expansion slots, a mixed combination of x16 PCle, x4 PCle, and PCl slots
- \cdot Dedicated heat dissipation for -25°C to 60°C wide-temperature operation
- · 2x GbE, 4x USB 3.1 Gen1 and 5x COM ports
- · Dual DVI display outputs
- · Up to 2x 2.5" SATA HDD/ SSD accommodation and 1x mSATA socket
- · Wall-mounting and rack-mounting available

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Get Quote

Introduction

Nuvo-8000 series systems are cost-effective box-PCs with up to 5 expansion slots that can perfectly replace your bulky rack-mount or wall-mount IPC systems. Leveraging Intel® 9th/ 8th-Gen Core™ i desktop processor with H310 chipset, it delivers the same computing power as traditional IPCs but in a much more compact footprint with a budgetary price.

There are four models in the Nuvo-8000 series with various expansion configurations. Customers can choose from a compact 3-slot PCle system to a 5-slot system with up to three PCle slots or up to four PCl slots, that best suit their industrial automation or machine vision application needs. It features front-accessible I/Os including two GbE, four USB 3.1 Gen1 and five COM ports that make it easier to access when it is rack-mounted or placed inside a cabinet. Storage wise, Nuvo-8000 series systems have two 2.5" SATA SSD/ HDD and one mSATA socket to support various storage devices. The system can also support a 125W NVIDIA® GPU to offer TFLOPS computing power for modern deep-learning applications.

Nuvo-8000 series systems are designed with satisfying industrial demands in mind. Retaining traditional IPC expansion capabilities and fulfilling diverse application requirements in an extremely compact form-factor with industrial-grade reliability.

Specifications

	Nuvo-8003	Nuvo-8023	Nuvo-8032	Nuvo-8041		Nuvo-8003	Nuvo-8023	Nuvo-8032	Nuvo-8041
System Core			Expansion Bus						
Processor	Supporting Intel® 9th/8th-Gen Core™ CPU (LGA1151 socket) - Intel® Core™ 17-9700TE /17-87004* /17-8700T - Intel® Core™ 15-9500TE /15-8500*/ 15-8500T - Intel® Core™ 13-9100TE /13-8100*/ 13-8100T - Intel® Core™ 13-9100TE /13-8100*/ 13-8100T - Intel® Pentium® G\$400T (4M Cache, 3.1GHz, 35W TDP) - Intel® Celerom® G\$4900T (2M Cache 2.9GHz, 25W TDP)			PCI/PCI Express	1x PCIe x16 slot @Gen3, 16-lanes 1x PCIe x8 slot @Gen2, 4-lanes 1x PCIe x4 slot @Gen2, 1-lane	1x PCIe x16 slot @Gen3, 16-lanes 1x PCIe x4 slot @Gen2, 2-lanes 1x PCIe x4 slot @Gen2, 1-lane	1x PCIe x16 slot @Gen3, 16-lanes 1x PCIe x8 slot @Gen2, 4-lanes	1x PCle x16 slot @Gen3, 16-lane:	
Chipset	Intel® H310 platform controller hub			PCI	-	2x 33MHz/ 32-bit 5V PCI slots	3x 33MHz/ 32-bit 5V PCI slots	4x 33MHz/ 32-bit 5' PCI slots	
	Integrated Intel® UHD Graphics 630, or independent 125W GPU via x16 PEG port			mSATA	1x full-size mSATA socket (mux with USB 2.0 signals)				
Graphics				Power Supply					
Memory	Up to 32 GB DDR4 2666 SDRAM (one SODIMM slot)			DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input				
I/O Interface			 _ Mechanical	echanical					
Ethernet	1x Gigabit Ethernet 1x Gigabit Ethernet				Dimension	154 mm (W) x 235 mm (D) x 174 mm (H)			
Video Port (Integrated Graphics)	2x DVI-D connectors, each supporting 1920x1200 resolution		Weight	3 Kg	3.6 Kg				
Serial Port	1x software-programmable RS-232/ 422/ 485 ports (COM1) 1x software-programmable RS-422/ 485 ports (COM2)		Mounting	Wall-mount (standard) DIN-Rail mounting (optional) Rack-mount (optional)					
	3x 3-wire RS-232 ports (COM3/ COM4/ COM5)		- Environmental						
USB 3.1	,	USB 3.1 Gen1 (5 Gbps) ports USB 2.0 port with Type-A connectors(internal) USB 2.0 port with 2x8 pins box header(internal)		Operating	-25°C ~ 60°C				
USB 2.0					Temperature Storage				
Audio	1x 3.5 mm jack for r	mic-in and spea	ker-out		Temperature	-40°C ~ 85°C			
Storage Interface			Humidity	10%~90%, non-condensing					
SATA HDD	2x internal SATA ports for 2.5" HDD/ SSD installation			Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4				
mSATA	1x full-size mSATA port			Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II				
IIIJATA				EMC	CE/FCC Class A, according to EN55032 & EN55035				
					* Due to thermal lim	I itations, 65W CPUs will	he configured to ones	ate in 35W mode hy de	fault

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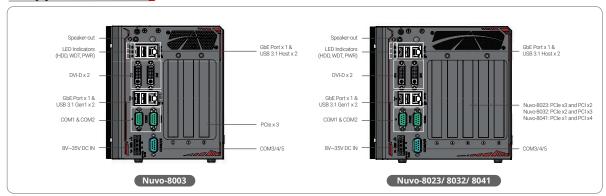
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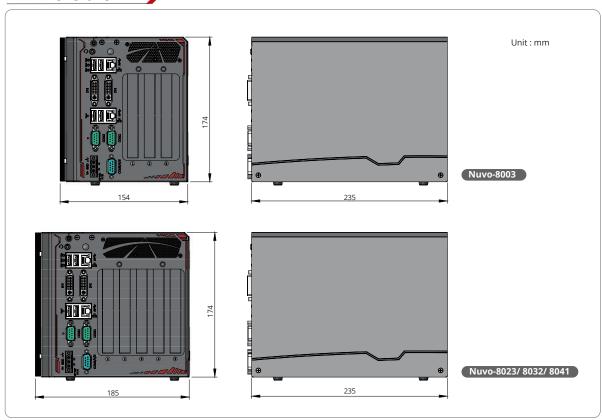
Nuvo-8000 Series



Appearance



Dimensions



Ordering Information

Model No.	Product Description		
Nuvo-8003	Intel® 9/ 8th-Gen Core™ i7/ i5/ i3 fanless rugged Box-PC with 3x PCIe expansion slots		
Nuvo-8023	Intel® 9/8th-Gen Core™ i7/ i5/ i3 fanless rugged Box-PC with 3x PCIe and 2x PCI expansion slots		
Nuvo-8032	Intel [®] 9/ 8th-Gen Core™ i7/ i5/ i3 fanless rugged Box-PC with 2x PCIe and 3x PCI expansion slots		
Nuvo-8041	Intel® 9/8th-Gen Core™ i7/i5/i3 fanless rugged Box-PC with 1x PCIe and 4x PCI expansion slots		

Optional Accessories

Rmkit-Nuvo6000	Rack mounting assembly for Nuvo-6000/ 8000 series
Fankit-92	Fan assembly for Nuvo-8000, 92x92x25 mm
PA-280W-ET2	280W AC/DC power adapter 24V/ 11.67A ; 16AWG/ 100cm; cord end terminals for terminal block, operating temperature : -30°C to 60°C
PA-160W-OW	160W AC/DC power adapter 20V/ 8A; 18AWGx4C/ 120cm, cord end terminals for terminal block, operating temperature : -30°C to 70 °C
PA-120W-OW	120W AC/ DC power adapter 20V/ 6A; 18AWG/ 120cm; cord end terminals for terminal block, operating temperature: -30°C to 70 °C

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All specifications and photos are subject to change without prior notice



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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