

Rugged Embedded



Nuvo-8000 Series

Intel® 9th/8th-Gen Core™ i7/ i5/ i3 Expansion Box-PC with up to 5 PCle/ 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
- · 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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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™ i7-9700TE/ i7-8700*/ i7-8700T - Intel® Core™ i5-9500TE/ i5-8500T - Intel® Core™ i3-9100TE/ i3-8100*/ i3-8100T - Intel® Core™ i3-9100TE/ i3-8100*/ i3-8100T - Intel® Pentium® G5400T (4M Cache, 3.1GHz, 35W TDP)			PCI/PCI Express	1x PCle x16 slot @Gen3, 16-lanes 1x PCle x8 slot @Gen2, 4-lanes 1x PCle 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 PCle x16 slot @Gen3, 16-lanes 1x PCle x8 slot @Gen2, 4-lanes	1x PCle x16 slot @Gen3, 16-lane:	
Chipset	- Intel® Celeron® G4900T (2M Cache, 2.9GhHz, 35W TDP) 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,				mSATA	1x full-size mSATA socket (mux with USB 2.0 signals)			
Graphics	or independent 125W GPU via x16 PEG port			Power Supp	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	9				Mechanical				
Ethernet	1x Gigabit Ethernet port by Intel [®] I219-LM 1x Gigabit Ethernet port by Intel [®] I210-IT			Dimension	154 mm (W) x 235 mm (D) x 174 mm (H)	185 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)				
USB 3.1	3x 3-wire RS-232 ports (COM3/ COM4/ COM5)		— Environmental						
USB 3.1		B 3.1 Gen1 (5 Gbps) ports B 2.0 port with Type-A connectors(internal) B 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 f	or mic-in and spe	mic-in and speaker-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				
				ЕМС	CE/FCC Class A, according to EN55032 & EN55035				
					* Due to thermal lim	nitations, 65W CPUs wil	he configured to open	ate in 35W mode by de	fault.

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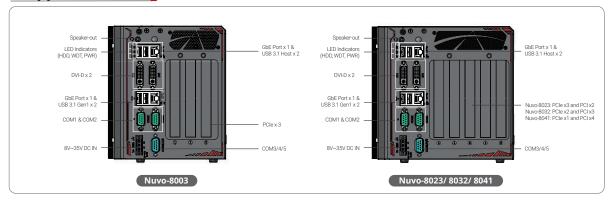
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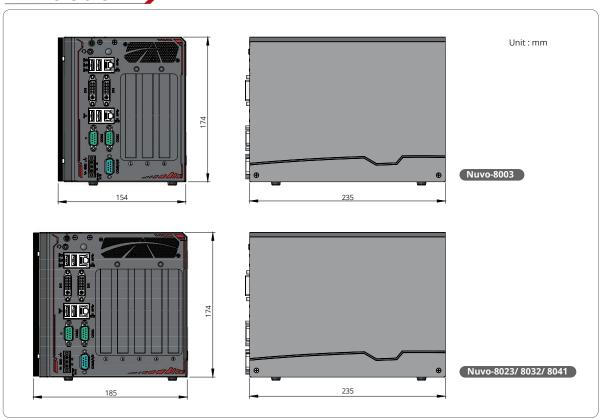
Nuvo-8000 Series



Appearance



Dimensions



Ordering Information

Model No.	Product Description		
Nuvo-8003	Intel® 9/ 8th-Gen Core™ i7/ i5/ i3 fanless rugged Box-PC with 3x PCle 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 PCle and 4x PCl 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	$280WAC/DCpoweradapter24V/11.67A;16AWG/100cm;cordendterminalsforterminalblock,operatingtemperature:-30^{\circ}Cto60^{\circ}C$
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.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660