

Nuvo-10000 Series

Intel $^{\circ}$ 14th/ 13th/ 12th-Gen Core $^{\circ}$ i9/ i7/ i5/ i3 Expansion Box-PC with up to 7 PCIe/ PCI Slots



Key Features

- Supports Intel[®] 14th/ 13th/ 12th-Gen Core[™] i9/ i7/ i5/ i3, Pentium[®] and Celeron[®] LGA 1700 CPU
- · Compact footprint with up to seven expansion slots
 - Two x16 PCle, three x8 PCle and two x4 PCle slots (Nuvo-10007)
 - Two x16 PCIe, two x8 PCIe and three PCI slots (Nuvo-10034)
 - One x16 PCle and two x8 PCle slots (Nuvo-10003)
- · 8x USB 3.2 Gen2 ports with screw-lock
- · 1x 2.5G and 1GbE ports with screw-lock
- · DP++ / HDMI 1.4b dual display outputs
- · 2x 2.5" SATA HDD/ SSD accommodation support RAID control
- · Supports single NVIDIA® GPU card with up to 115W TDP

Introduction

Nuvo-10000 series is the ideal choice to replace your bulky rack-mount or wall-mount IPC systems. The system offers up to seven PCIe/ PCI slots in its compact chassis to deliver the same level of expandability as off-the-shelf 4U 19" IPCs. Users can install a wide variety of AIO, DIO, communication, image capture and motion control cards for versatile applications.

Leveraging Intel® 14th/ 13th/ 12th-Gen Alder Lake Core™ i desktop processors with Q670 chipset, Nuvo-10000 series delivers exceptional computing power over traditional IPCs in a comparatively compact size with a competitive price. It features eight USB 3.2 ports with screw-lock mechanism for USB3 cameras. There is one GbE, one 2.5 GbE, 5 COM ports, and accommodates two 2.5" HDDs/ SSDs with the addition of an internal SATA port for a third HDD/SSD. The system can also support a 115W NVIDIA® GPU to offer significant Al computing power for modern deep-learning applications.

Driven by the increasing demand for industrial IoT, vision inspection and machine automation, Nuvo-10000 series is a flexible all-around rugged solution that can satisfy various industrial applications. With an assortment of I/O ports and flexible 7-slot PCIe/ PCI expandability, Nuvo-10000 series is geared for the fifth industrial revolution.

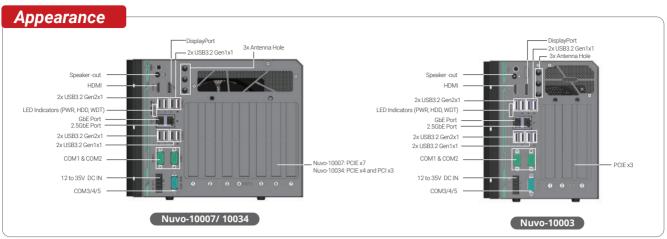
Specifications

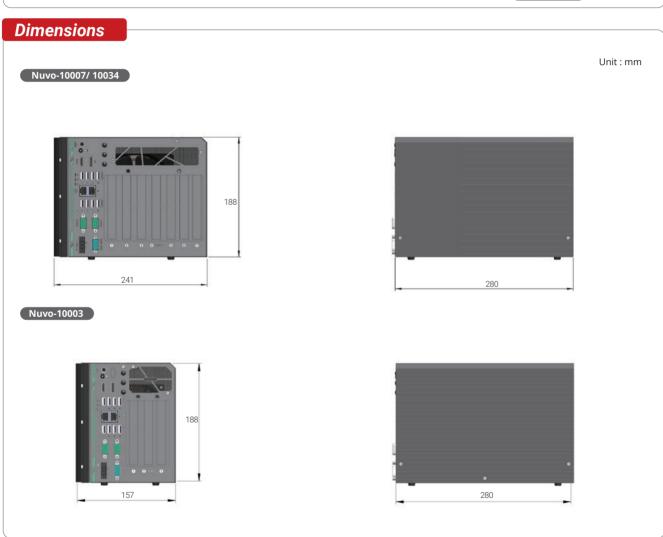
	Nuvo-10007	Nuvo-10034	Nuvo-10003	
System Cor	е			
Processor	Supporting Intel® 14th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ 19-149007 - Intel® Core™ 19-149007 - Intel® Core™ 15-14500/ 19-14900T - Intel® Core™ 15-14500/ 19-144001 - Intel® Core™ 18-14100/ 18-14100T Supporting Intel® 13th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ 19-13900E/ 19-13900TE / 19-12900E/ 19-12900TE/ - Intel® Core™ 19-13500E/ 19-13700TE - Intel® Core™ 18-13100E/ 18-13400E/ 18-13500TE - Intel® Core™ 18-13100E/ 18-13100TE Supporting Intel® 12th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ 19-12900TE - Intel® Core™ 17-12700E/ 17-12700TE - Intel® Core™ 18-12500E/ 18-12500TE - Intel® Core™ 18-12100E/ 18-12100TE - Intel® Core™ 18-12100E/ 18-12100TE - Intel® Celeron™ G6900E/ G6900TE			
Chipset	Intel® Q670E platform controller hub			
Graphics	CPU dependent Integra	ted Intel [®] UHD graphics	5 770 (32EU)/ 730 (24EU)	
Memory	Up to 64 GB DDR5 4800	SDRAM (two SODIMM	slots)	
AMT	Supports Intel vPro/ AMT 16.0			
TPM	Supports dTPM 2.0			
I/O Interfac	I/O Interface			
Ethernet	1x 2.5G Ethernet port by 1x Gigabit Ethernet port			
Video Port (Integrated Graphics)	1x HDMI 1.4b, supporti 1x DisplayPort, support			
Serial Port	2x software-programma 3x 3-wire RS-232 ports			
USB 3.2	4x USB 3.2 Gen2 (10 Gbp 4x USB 3.2 Gen2 (5 Gbps			
USB 2.0	1x USB 2.0 port with Typ	e-A connector (interna	1)	
Audio	1x 3.5 mm jack for mic-	in and speaker-out		

	Nuvo-10007	Nuvo-10034	Nuvo-10003	
Storage Inte	erface			
SATA HDD/ SSD	2x SATA ports for internal 2.5" HDD/ SSD installation (support RAID 0/1)			
M.2 M key	1x M.2 2280 SATA interface			
Internal Expansion Bus				
PCI Express	2x PCIe x16 slot @ Gen3, 8-lanes 3x PCIe x8 slot @ Gen3, 4-lanes 2x PCIe x4 slot @ Gen3, 2-lanes	2x PCle x16 slot @ Gen3, 8-lanes 2x PCle x8 slot @ Gen3, 4-lanes	1x PCle x16 slot @Gen3, 16-lanes 2x PCle x8 slot @ Gen3, 4-lanes	
PCI	-	3x 33MHz/ 32-bit 5V PCI slots	-	
Mini PCI Express	2x full-size mini PCI Express socket with internal micro SIM socket			
Power Supply				
DC Input	1x 3-pin pluggable terminal block for 12 to 35V DC input			
Remote Ctrl. & LED Output	1x10-pin (2x5) wafer connector for remote on/off control and status LED output			
Mechanical				
Dimension	241mm (W) x 280 mm(D) x 188mm (H)		157mm (W) x 280 mm(D) x 188mm (H)	
Weight	5.2kg		4.2kg	
Mounting	Wall-mount (standard)			
Environmer	ntal			
Operating Temperature	-25°C ~ 60°C*			
Storage Temperature	-40°C ~ 85°C			
Humidity	10% ~ 90% , non-condensing			
Vibration	Operating, MIL-STD-810H, Method 514.8, Category 4			
Shock	Operating, MIL-STD-810H, Method 516.8, Procedure I			
EMC	CE/FCC Class A, according to EN 55032 & EN 55035			

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







Ordering Information

Model No.	Product Description	
Nuvo-10007	Intel® 14/ 13/ 12th-Gen Core™ i9/ i7/ i5/ i3 Expansion Box-PC with 7x PCle slots	
Nuvo-10034	Intel [®] 14/ 13/ 12th-Gen Core™ i9/ i7/ i5/ i3 Expansion Box-PC with 4x PCle and 3x PCl slots	
Nuvo-10003	Intel® 14/ 13/ 12th-Gen Core™ i9/ i7/ i5/ i3 Expansion Box-PC with 3x PCle slots	

Optional Accessories

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-600W-ENC	600W AC/DC power adapter 24V/25A; cord end terminals for terminal block, operating temperature: -20°C to 70°C.