

Rugged Expansion Platform Nuvo-8000/ 6000 Series

Flexible Expansion | High Performance | Support Win 10/ Win 7



The image features a collage of industrial scenes. In the background, a car is being assembled on a line, and robotic arms are visible. In the foreground, several rugged expansion platforms are displayed on a red surface. The platforms are shown from different angles, highlighting their front and side panels. The background also includes a CNC machine cutting a metal part.

Intel
CORE i2
8th Gen

Intel
CORE i7
8th Gen

Intel
CORE i7
8th Gen

Win 10/ Win 7

Up to 180W GPU

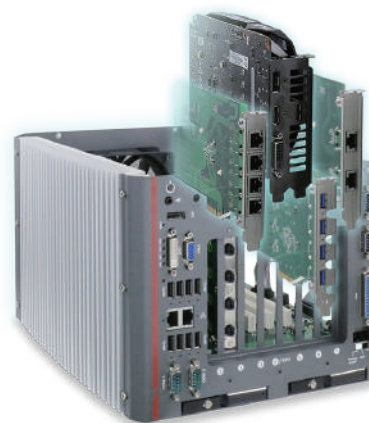
Up to 7 Expansion Slots

8V-35V

■ Why Choose Neosys Nuvo-8000 and Nuvo-6000 Series Box PCs?

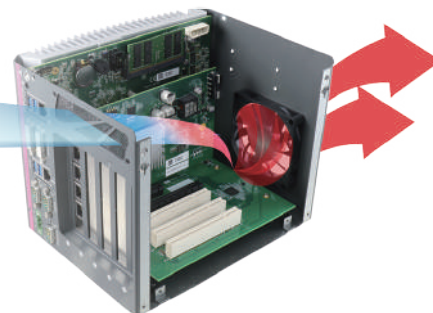
Neosys offers the most comprehensive portfolio of expandable box-PC in the market with numerous configurations of PCIe/PCI slots and CPUs. They are perfect fits for various applications such as industrial automation, machine vision, utility energy, etc.

Nuvo-6000 series is a 6th-Gen Core™ platform and is perfectly compatible with your legacy Windows 7 applications. You can choose from a compact 2-slot system to a flexible 5-slot system with different PCIe/ PCI configurations.



Nuvo-8000 series, leveraging state-of-the-art 9th/ 8th-Gen Core™ CPU, offers extraordinary performance and compatibility for Windows 10 applications. It features 5 models including cost-effective 3-slot/ 5-slot systems to the high-end, high-performance 7-slot Nuvo-8034. In addition, all Nuvo-8000 series models support NVIDIA® GPU to power modern deep-learning vision applications.

All Neosys expandable box-PCs feature best-in-class thermal design and guarantee rugged -25°C to 60°C operation. And the front-accessible I/O design allows for easy deployment inside a cabinet. With a variety of slot configurations, Windows 7/ 10 support and the capability of GPU computing, there is a perfect Neosys Box PC for your solution!



Expansion PCI Express Cards



PCIe-PoE354at/352at

4-port/ 2-port server-grade gigabit 802.3at PoE+ machine vision frame grabber card



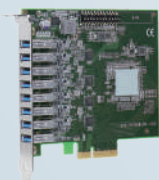
PCIe-PoE550X

2-port 10GbE network adapter with IEEE 802.3at PoE+ machine vision frame grabber card



PB-2500J

Industrial-grade intelligent supercapacitor-based power backup module



PCIe-USB381F

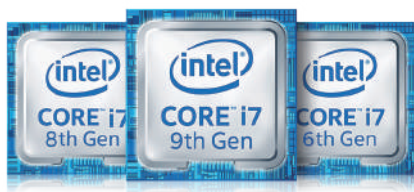
8-port USB 3.1 Gen1 host adapter card with four independent controllers

Rugged Box PCs Key Features

- Supports Intel® 9th/ 8th/6th-Gen Core™ i7/ i5 /i3 CPU
- Windows 7 and Windows 10 support
- Up to 7 PCIe/ PCI expansion slots
- Supports NVIDIA® GPU for deep-learning vision applications
- -25°C to 60°C wide-temperature operation
- 2x GbE, 4x USB 3.1 and up to 5x COM ports
- Dual DVI display outputs, supporting 1920 x 1200 resolution
- Up to 3x 2.5" SATA HDD/ SSD accommodation and 1x mSATA socket



Benefits of Neousys Box PC



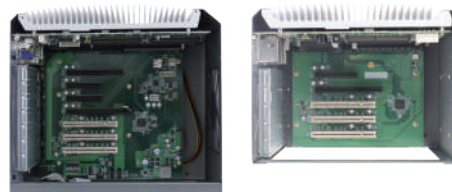
High performance embedded system

Support up to Intel® 9th/8th-Gen Core™ i7 processors to offer tremendous processing performance.



GPU support for edge AI computing

Support various GPU graphics cards that works as GPU-aided edge computing platform and can benefit the development/implementation of related applications.



Flexible expansion

Provides up to seven PCIe/ PCI expansion slots and supports vision-specific, motion, data acquisition I/O, graphics card, etc.



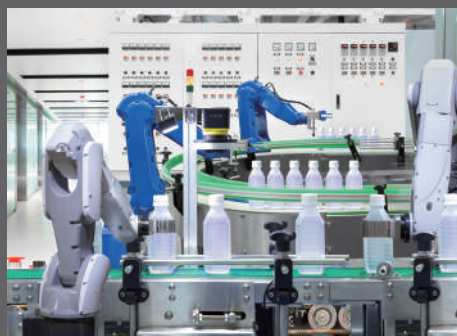
Front-accessible I/O design

The front accessible I/O design makes it easy to connect and organize cables.

Applications



Machine vision



Automation



AI inspection system

Rugged Expansion Platform Specification Table



Model Name		Nuvo-8003	Nuvo-8023	Nuvo-8032	Nuvo-8041	Nuvo-8034
Chassis	Dimensions (W x D x H)	150 x 235 x 182mm	184 x 235 x 182mm	184 x 235 x 182mm	184 x 235 x 182mm	259 x 280 x 198mm
	Weight	3 kg	3.6 kg	3.6 kg	3.6 kg	7 kg
	Construction	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal
System	Processor	Supporting Intel® 9th/ 8th-Gen Core™ LGA1151 CPU - Intel® Core™ i7-9700TE/ i7-8700/ i7-8700T - Intel® Core™ i5-9500TE/ i5-8500/ i5-8500T - Intel® Core™ i3-9100TE/ i3-8100/ i3-8100T - Intel® Pentium® G5400T (4M Cache, 3.1GHz, 35W TDP) - Intel® Celeron® G4900T (2M Cache, 2.9GHz, 35W TDP)				Supporting Intel® Xeon® E and 9th/ 8th - Gen CPU(LGA1151 socket) - Intel® Xeon® Processor E-2176G/ E-2124G/ E-2278GE/ E-2278GEL - 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
	Chipset	Intel® H310	Intel® H310	Intel® H310	Intel® H310	Intel® H310
	Graphics	Integrated Intel® UHD Graphics 630 or independent 125W GPU via x16 PEG port				Independent GPU via x16 (@ x8 signals) PEG port, or integrated Intel® UHD graphics 630
	Memory	Up to 32 GB DDR4-2666	Up to 32 GB DDR4-2666	Up to 32 GB DDR4-2666	Up to 32 GB DDR4-2666	Up to 128 GB DDR4-2133
I/O Interface	Ethernet	2	2	2	2	2
	Video Port	2x DVI-D	2x DVI-D	2x DVI-D	2x DVI-D	1x VGA, 1x DVI-D, 1x DisplayPort
	Serial Port	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/422/485 ports 2x RS-232
	USB 2.0	2	2	2	2	1
	USB 3.1	4	4	4	4	4
	USB 3.2	-	-	-	-	4
Storage Interface	Audio	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out
	SATA HDD	2x 2.5" HDD/ SSD	2x 2.5" HDD/ SSD	2x 2.5" HDD/ SSD	2x 2.5" HDD/ SSD	2x hot-swap tray for 2.5" HDD/SSD
	mSATA / eSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA
Expansion Bus	PCI/PCI Express	1x PCI Express x16 slot @Gen3, 16-lanes 1x PCI Express x8 slot @Gen2, 4-lanes 1x PCI Express x4 slot @Gen2, 1-lane	1x PCI Express x16 slot @Gen3, 16-lanes 1x PCI Express x4 slot @Gen2, 2-lanes 1x PCI Express x4 slot @Gen2, 1-lane 2x 33MHz/ 32-bit 5V PCI slots	1x PCI Express x16 slot @Gen3, 16-lanes 1x PCI Express x8 slot @Gen2, 4-lanes 3x 33MHz/ 32-bit 5V PCI slots	1x PCI Express x16 slot @Gen3, 16-lanes 4x 33MHz/ 32-bit 5V PCI slots	2x PCI Express x16 slot @Gen3, 8-lanes 2x PCI Express x8 slot @Gen3, 4-lanes 3x 33MHz/ 32-bit 5V PCI slots
Power Supply	DC Input	8-35V DC	8-35V DC	8-35V DC	8-35V DC	8-35V DC
Environmental	Operating Temperature	-25°C~60°C	-25°C~60°C	-25°C~60°C	-25°C~60°C	-25°C~60°C
	Certification	CE/FCC Class A, according to EN55032 & EN55035	CE/FCC Class A, according to EN55032 & EN55035	CE/FCC Class A, according to EN55032 & EN55035	CE/FCC Class A, according to EN55032 & EN55035	CE/FCC Class A, according to EN55032 & EN55024



Model Name		Nuvo-6002	Nuvo-6023	Nuvo-6032	Nuvo-6041
Chassis	Dimensions (W x D x H)	124 x 225 x 174mm	184 x 225 x 174mm	184 x 225 x 174mm	184 x 225 x 174mm
	Weight	2.8 kg	3.5 kg	3.5 kg	3.5 kg
	Construction	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal
System	Processor	Supports Intel® 6th-Gen Core™, Pentium® and Celeron® LGA1151 CPU - Intel® Core™ i7-6700TE - Intel® Core™ i5-6500TE - Intel® Core™ i3-6100TE - Intel® Pentium® 4400TE - Intel® Celeron® 3900TE	Supports Intel® 6th-Gen Core™, Pentium® and Celeron® LGA1151 CPU - Intel® Core™ i7-6700TE - Intel® Core™ i5-6500TE - Intel® Core™ i3-6100TE - Intel® Pentium® 4400TE - Intel® Celeron® 3900TE	Supports Intel® 6th-Gen Core™, Pentium® and Celeron® LGA1151 CPU - Intel® Core™ i7-6700TE - Intel® Core™ i5-6500TE - Intel® Core™ i3-6100TE - Intel® Pentium® 4400TE - Intel® Celeron® 3900TE	Supports Intel® 6th-Gen Core™, Pentium® and Celeron® LGA1151 CPU - Intel® Core™ i7-6700TE - Intel® Core™ i5-6500TE - Intel® Core™ i3-6100TE - Intel® Pentium® 4400TE - Intel® Celeron® 3900TE
	Chipset	Intel® H110	Intel® H110	Intel® H110	Intel® H110
	Graphics	Intel® HD Graphics 530/510	Intel® HD Graphics 530/510	Intel® HD Graphics 530/510	Intel® HD Graphics 530/510
	Memory	Up to 32 GB DDR4-2133	Up to 32 GB DDR4-2133	Up to 32 GB DDR4-2133	Up to 32 GB DDR4-2133
	Audio	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out
I/O Interface	Ethernet	2	2	2	2
	Video Port	2x DVI-D	2x DVI-D	2x DVI-D	2x DVI-D
	Serial Port	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232	2x RS-232/ 422/ 485 3x 3-wire RS-232
	USB 2.0	-	-	-	-
	USB 3.1	4	4	4	4
	USB 3.2	-	-	-	-
	Audio	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out
Storage Interface	SATA HDD	1x 2.5" HDD/SSD	3x 2.5" HDD/ SSD	3x 2.5" HDD/ SSD	3x 2.5" HDD/ SSD
	mSATA / eSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA
Expansion Bus	PCI/PCI Express	1x PCI Express x16 slot @Gen 3, 16 lanes 1x PCI Express x8 slot @Gen2, 4-lanes	1x PCI Express x16 slot @Gen3, 16-lanes 1x PCI Express x4 slot @Gen3, 2-lanes 1x PCI Express x4 slot @Gen3, 1-lanes 2x 33MHz/ 32-bit PCI slots	1x PCI Express x16 slot @Gen 3, 16 lanes 1x PCI Express x8 slot @Gen2, 4-lanes 3x 33MHz/32-bit PCI slots	1x PCI Express x16 slot @Gen 3, 16 lanes 4x 33MHz/32-bit PCI slots
Power Supply	DC Input	8-35V DC	8-35V DC	8-35V DC	8-35V DC
Environmental	Operating Temperature	-25°C~60°C	-25°C~60°C	-25°C~60°C	-25°C~60°C
	Certification	CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032	CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032	CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032	CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032



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