ASSURED SYSTEMS

NEOUSYS TECHNOLOGY

Rugged Embedded

Nuvo-6000 Series

Intel® 6th-Gen Core™ i7/ i5/ i3 Fanless Box-PC with Up to 5 PCIe/ PCI Expansion Slots

Key Features

- Supports Intel® 6th-Gen Core™ i7/ i5/ i3, Pentium® and Celeron® LGA1151 CPU
- Up to five expansion slots
  - x16 PCIe, x8 PCIe and three PCI slots (Nuvo-6032)
  - x16 PCIe and x8 PCIe slots (Nuvo-6002)
- Rugged, -25 °C to 60 °C fanless operation
- 2x GbE, 4x USB3.0 and 5x COM ports
- Dual DVI display outputs
- Up to 3x 2.5” SATA HDD/SDD and 1x mSATA socket
- Wall-mounting, (optional DIN-rail and rack-mount)
- Optional fan with automatic temperature sensing and fan control

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Introduction

Nuvo-6000 series is the perfect replacement for your bulky rack-mount or wall-mount IPC systems. Leveraging Intel® 6th-Gen Skylake platform, it delivers the same computing power as traditional IPCs, but in a compact fanless form-factor.

Nuvo-6000 series supports LGA1151 socket-type CPU, you can choose from Core™ i7 to Celeron® depending on your budget/ application needs. Its' 5-slot capacity offer the same level of expandability as most IPCs. The front-accessible I/O design includes 2x GbE, 4x USB3.0 and 5x COM ports, making it easier to access your Nuvo-6000 when it's placed inside a cabinet or a rack.

Neousys' proven fanless design on Nuvo-6000 translates to extraordinary reliability in rugged industrial conditions while its versatile mounting options make it fit for desktop, cabinet or a 19” rack. With similar performance, cost, compact form-factor and reliability, Nuvo-6000 series speaks for itself.

Specifications

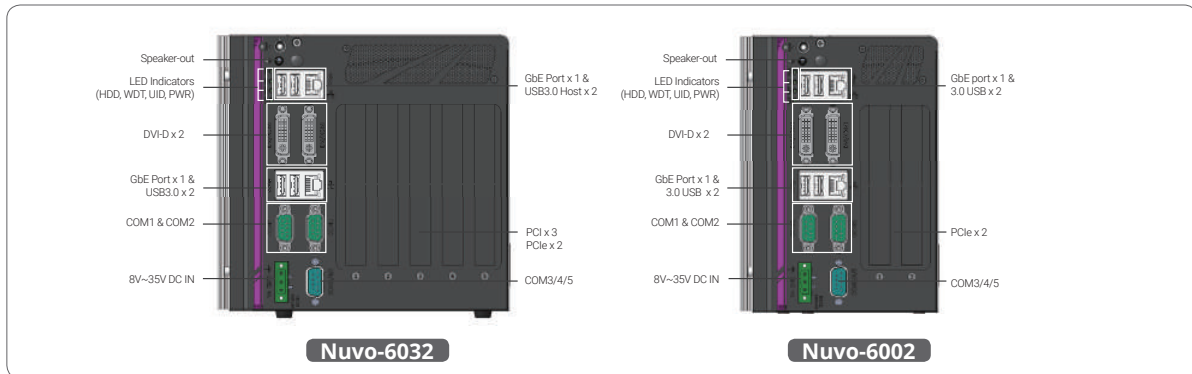|	Nuvo-6032	Nuvo-6002
System Core		
Processor	Supports Intel® 6th-Gen Core™, Pentium® and Celeron® LGA1151 CPU Intel® Core™ i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) Intel® Core™ i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP) Intel® Core™ i3-6100TE (4M Cache, 2.7 GHz, 35W TDP) Intel® Pentium® G4400TE (3M Cache, 2.4 GHz, 35W TDP) Intel® Celeron® G3900TE (2M Cache, 2.3 GHz, 35W TDP)	
Chipset	Intel® H110 platform controller hub	
Graphics	Integrated Intel® HD 530/ 510 controller	
Memory	Up to 16 GB DDR4-2133 (single SO-DIMM slot)	
I/O Interface		
Ethernet	1x Gigabit Ethernet port by Intel® I219-LM 1x Gigabit Ethernet port by Intel® I210-IT	
Video Port	2x DVI-D connectors for DVI outputs	
Serial Port	2x software-programmable RS-232/ 422/ 485 ports 3x 3-wire RS-232 ports	
USB	4x USB3.0 ports	
Audio	1x Speaker-out	
Storage Interface		
SATA HDD	3x SATA ports for 2.5” HDD/ SSD installation	1x SATA port for 2.5” HDD/ SSD installation
mSATA	1x full-size mSATA socket	

	Nuvo-6032	Nuvo-6002
Expansion Bus/ Internal I/O Interface		
PCI Express	1x PCIe x16 slot @ Gen3, 16-lanes PCIE signals 1x PCIe x8 slot @ Gen2, 4-lanes PCIE signals	
PCI	3x 33MHz/ 32-bit PCI slots	-
Remote Ctrl. & Status Output	1x 2x6-pin 2.0mm pin-header connector for remote on/off control and status LED output	
Power Supply		
DC Input	1x 3-pin pluggable terminal block for 8~35V DC DC input	
Mechanical		
Dimension	184mm(W)x225mm(D)x174mm(H)	124mm (W)x225mm(D)x174mm(H)
Weight	3.5 kg (incl. CPU, memory and HDD)	2.8 kg (incl. CPU, memory and HDD)
Mounting	Wall-mounting (standard), DIN-rail mounting (optional), rack-mounting (optional)	
Environmental		
Operating Temperature	-25°C ~ 60°C */**	
Storage Temperature	-40°C ~ 85°C	
Humidity	10%~90% , non-condensing	
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)	
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	
EMC	CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032	

*The 100% CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact Neousys Technology
** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.
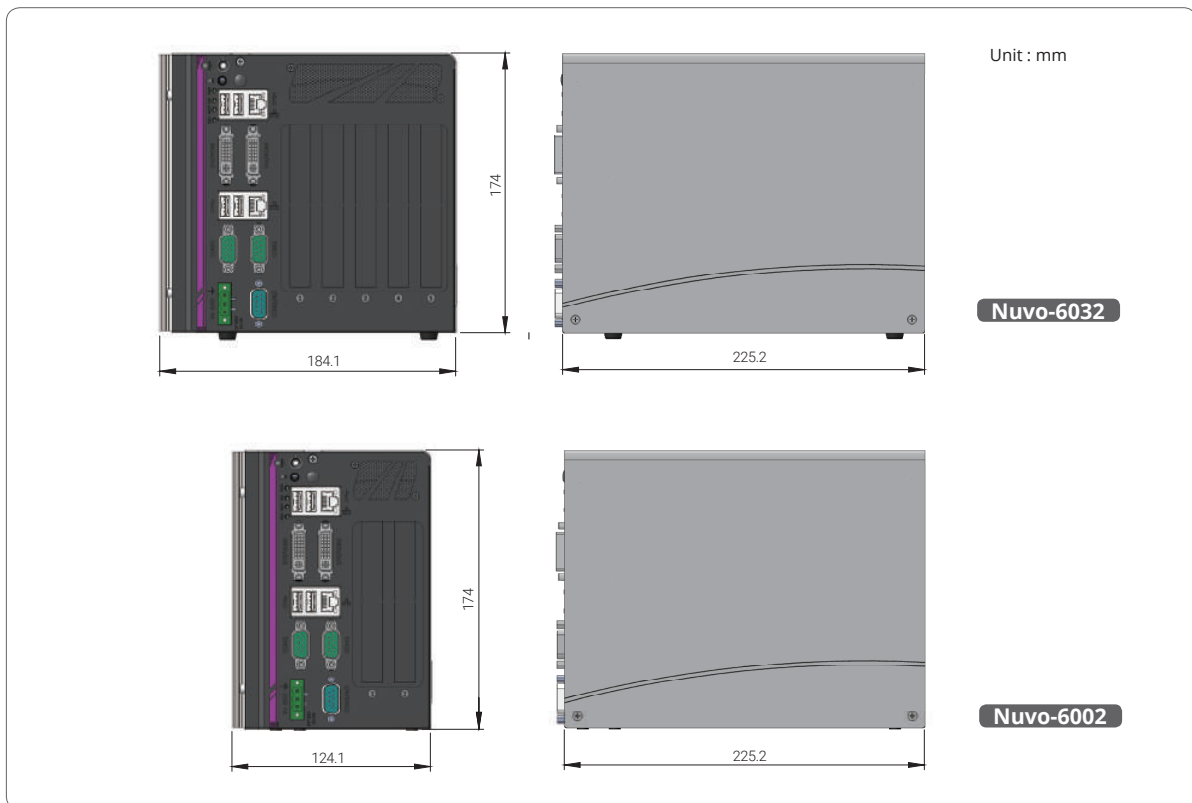
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Nuvo-6000 Series

NEOUSYS TECHNOLOGY

Appearance

Speaker-out
LED Indicators (HDD, WDT, UID, PWR)
DVI-D x 2
GbE Port x 1 & USB3.0 x 2
COM1 & COM2
8V~35V DC IN

GbE Port x 1 & USB3.0 Host x 2
PCI x 3 PCIe x 2
COM3/4/5

Nuvo-6032

Speaker-out
LED Indicators (HDD, WDT, UID, PWR)
DVI-D x 2
GbE Port x 1 & 3.0 USB x 2
COM1 & COM2
8V~35V DC IN

GbE port x 1 & 3.0 USB x 2
PCIe x 2
COM3/4/5

Nuvo-6002

Dimensions

Unit : mm

174
184.1
225.2
Nuvo-6032

174
124.1
225.2
Nuvo-6002

Ordering Information

Model No.	Product Description
Nuvo-6032	Intel® 6th-Gen Core™ fanless Box-PC with 1x PCIe x16 slot, 1x PCIe x8 (@ x4 signals) slot and 3x PCI slots
Nuvo-6002	Intel® 6th-Gen Core™ fanless Box-PC with 1x PCIe x16 slot and 1x PCIe x8 (@ x4 signals) slot

Optional Accessories

Rmkit-Nuvo6000	Rack mounting assembly for Nuvo-6000 series
DINRAIL-E	DIN-rail mounting assembly for Nuvo-6000 series
Fankit-80	Fan assembly for Nuvo-6000 series, 80x80x15 mm
PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.
PA-160W-OW	160W AC/DC power adapter 20V/8A;18AWGx4C/120cm, cord end terminals for terminal block. operating temperature : -30 to 70 °C.
Cbl-DB9F-3DB9M-10CM	1x DB9 (female) to 3x DB9 (male), for Nuvo-6000 series, length: 10CM

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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