

Nuvo-6000 Series

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



Nuvo-6032

Nuvo-6002

Features

- Supports 6th-Gen Intel® 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-4002)
- Rugged, -25 °C to 60 °C fanless operation
- 2x GbE, 4x USB 3.0 and 5x COM ports
- Dual DVI display outputs
- Up to 3x 2.5" SATA accommodation and 1x mSATA socket
- Wall-mounting, DIN-rail mounting and rack-mounting available
- Automatic temperature sensing and fan control (optional)

Introduction

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

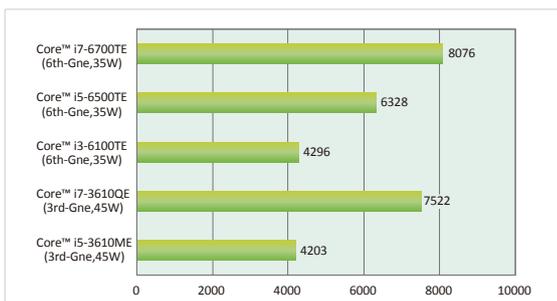
Nuvo-6000 series supports LGA1151 socket-type CPU, thus you can choose from Core™ i7 to Celeron® depending on your performance and cost consideration. Its 5-slot capacity gives the same level of expandability as most IPCs. The front-accessible I/O design, including 2 GbE, 4 USB 3.0 and 5 COM ports, makes it easier to access your Nuvo-6000 when it's placed inside a cabinet or a rack.

Neousys' proven fanless design on Nuvo-6000 presents extraordinary reliability in all circumstances. And its versatile mounting options make it fit for desktop, cabinet or a 19" rack. With similar performance and cost, better form-factor and reliability, Nuvo-6000 series is speaking for itself on the new horizon of industrial computer.

Product Highlights

6th-Gen Core™ i Skylake Platform

Nuvo-6000 features Intel® 6th-Gen Core™ desktop processor to deliver the same computing power as conventional 19" IPC. Its socket-type CPU support allows users to flexibly select the CPU, from entry-level Celeron® to high-end Core™ i7, according to the consideration of performance demand and system cost.



Regulated Air Flow for Add-on Cards

When add-on cards are installed, it's crucial to maintain a reasonable temperature inside the chassis. Nuvo-6000 has well-designed air inlet apertures and smart fan option to create regulated air flow through all cards, thus effectively brings out the heat and significantly increases the system reliability.



5-slot Expansion Capacity

Nuvo-6000 offers up to five PCIe/PCI slots in its compact chassis to deliver the same level of expandability as off-the-shelf IPCs. Users can install a wide variety of I/O, communication, vision and motion cards for versatile applications. For the configuration with only PCIe cards, Nuvo-6002 presents a slimmer model with a x16 and a x8 PCIe slot.



Versatile Mounting Options

To make easy setup, Nuvo-6000 is designed with multiple mounting mechanisms. You can place it in a cabinet using wall-mounting bracket, or fix it to a DIN rail with optional DIN-mounting clip. The rack-mounting kit allows two Nuvo-6000 units installed in a rack using the same space as a 4U, 19" IPC.



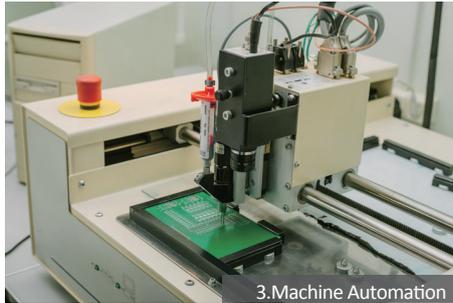
Applications



1. Factory Plant Monitoring



2. Tollgate Control



3. Machine Automation



4. Intelligent Parcel System

1. Factory Plant Monitoring
2. Tollgate Control
3. Machine Automation
4. Intelligent Parcel System

Specifications

| | Nuvo-6032 | Nuvo-6002 | | Nuvo-6032 | Nuvo-6002 |
|----------------------|---|-----------|--------------------------|---|---|
| System Core | | | Storage Interface | | |
| Processor | Supports 6th-Gen Intel® 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) | | SATA | 3x SATA ports for 2.5" HDD/SSD installation | 1x SATA port for 2.5" HDD/SSD installation |
| Chipset | Intel® H110 Platform Controller Hub | | mSATA | 1x full-size mSATA socket | |
| Graphics | Integrated Intel® HD 530/510 Controller | | Power Supply | | |
| Memory | Up to 16 GB DDR4-2133 by one SODIMM socket | | DC Input | 1x 3-pin pluggable terminal block for 8~35 VDC input | |
| I/O Interface | | | Mechanical | | |
| Ethernet port | 1x Gigabit Ethernet port by Intel® I219-LM 1x Gigabit Ethernet port by Intel® I210-IT | | Dimension | 184mm(W)x225mm(D)x174mm(H) | 124mm (W)x225mm(D)x174mm(H) |
| Video Port | 2x DVI-D connectors for DVI/HDMI outputs, supporting 1920x1200 resolution | | Weight | 3.5 kg (include one 2.5" HDD and DDR4 SO-DIMM) | 2.8 kg (include one 2.5" HDD and DDR4 SO-DIMM) |
| Serial Port | 2x Software-programmable RS-232/422/485 ports 3x 3-wire RS-232 ports | | Mounting | Wall-mounting (standard), DIN-Rail mounting (optional), rack-mounting (optional) | |
| USB | 4x USB 3.0 ports | | Environmental | | |
| Audio | 1x Speaker-out | | Operating Temperature | -25°C ~ 60°C */** | |
| Expansion Bus | | | Storage Temperature | -40°C ~ 85°C | |
| PCI Express | 1x PCIe x16 slot @ Gen3, 16-lanes PCIe signals 1x PCIe x8 slot @ Gen2, 4-lanes PCIe signals | | Humidity | 10%~90% , non-condensing | |
| PCI | 3x 33MHz/32-bit PCI slots | | Vibration | Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, w/o add-on card, according to IEC60068-2-64) | |
| | | | Shock | Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, w/o add-on card, according to IEC60068-2-27) | |
| | | | EMC | CE/FCC Class A, according to EN 55022 & EN 55024 | |

* The CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact Neosys Technology

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

Order Information

Nuvo-6032

Intel® 6th-Gen Core™ i7/i5/i3 Fanless Box-PC with 2x PCIe and 3x PCI expansion slots

Nuvo-6002

Intel® 6th-Gen Core™ i7/i5/i3 Fanless Box-PC with x16 and x8 PCIe expansion slots

Accessories

Option of 80mm x 80mm smart fan

Option of DIN-Rail mounting clip

Option of rack mounting kit

20V, 120W AC/DC power adapter

20V, 160W AC/DC power adapter