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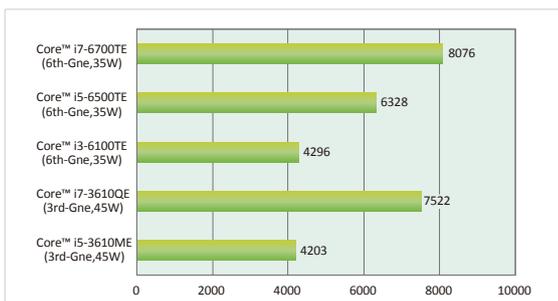
Nuvo-6000 series supports LGA1151 socket-type CPU, thus you can choose from Core™ i7 to Cereron® depending on your performance and cost consideration. Its 5-slot capacity gives the same level of expandability as most IPCs. The front-accessible I/O design, including 2 GbE, 4 USB 3.0 and 5 COM ports, makes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

CPU	Score
Core™ i7-6700TE (6th-Gne,35W)	8076
Core™ i5-6500TE (6th-Gne,35W)	6328
Core™ i3-6100TE (6th-Gne,35W)	4296
Core™ i7-3610QE (3rd-Gne,45W)	7522
Core™ i5-3610ME (3rd-Gne,45W)	4203

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.

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.

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.
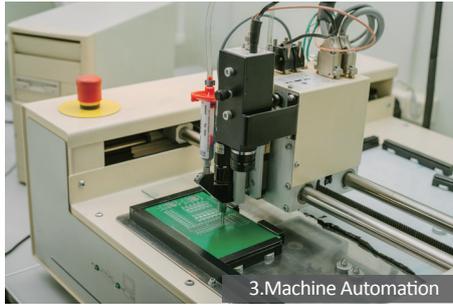
Applications

1. Factory Plant Monitoring

2.Network and Telecommunication

3.Machine Automation

4. Digital Signage

1. Factory Plant Monitoring
2. Network and Telecommunication
3. Machine Automation
4. Digital Signage

Specifications

	Nuvo-6032	Nuvo-6002
System Core		
Processor	Supports 6th-Gen Intel® Core™, Pentium® and Cereron® 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 by one SODIMM socket	
I/O Interface		
Ethernet port	1x Gigabit Ethernet port by Intel® I219-LM 1x Gigabit Ethernet port by Intel® I210-IT	
Video Port	2x DVI-D connectors for DVI/HDMI outputs, supporting 1920x1200 resolution	
Serial Port	2x Software-programmable RS-232/422/485 ports 3x 3-wire RS-232 ports	
USB	4x USB 3.0 ports	
Audio	1x Speaker-out	
Expansion Bus		
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	-

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Storage Interface		
SATA	3x SATA ports for 2.5" HDD/SSD installation	1x SATA port for 2.5" HDD/SSD installation
mSATA	1x full-size mSATA socket	
Power Supply		
DC Input	1x 3-pin pluggable terminal block for 8~35 VDC input	
Mechanical		
Dimension	184mm(W)x225mm(D)x174mm(H)	124mm (W)x225mm(D)x174mm(H)
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)
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, 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 Neousys 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

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