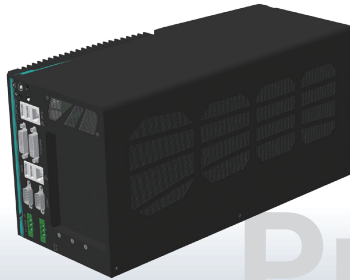


GPU Computing

www.neosys-tech.com

Nuvo-6108GC

Industrial-grade GPU Computing Platform with 250W nVidia® GPU and Intel® Xeon® E3 v5 and 6th-Gen Core™ Processor



Key Features

- Supports Intel® Xeon® E3 v5 and 6th-Gen Core™ i7/i5 LGA1151 CPU
- Supports nVidia® GPU with up to 250W TDP
- Patented thermal design for -25 °C to 60 °C rugged operation*
- Two x8, Gen3 PCIe slots for add-on cards
- Dual GbE ports and four USB 3.0 ports
- Dual DVI display outputs
- Four 2.5" SATA drives with RAID 0/1/5/10 support
- Automatic temperature sensing and fan control

Preliminary

*R.O.C Patent No. M534371

Introduction

Nuvo-6108GC is world's first industrial-grade GPU computer supporting high-end graphics cards. It's designed to fuel emerging GPU-accelerated applications, such as artificial intelligence, VR, autonomous driving and CUDA computing, by accommodating nVidia® GTX 1080 or TITAN X GPU.

Leveraging Intel® C236 chipset, Nuvo-6108GC supports Xeon® E3 v5 and 6th-Gen Core™ i7/i5 CPU with up to 32 GB ECC/non-ECC DDR4 memory. It incorporates general computer I/O like Gigabit Ethernet, USB 3.0 and serial ports. In addition to the x16 PCIe port for GPU installation, Nuvo-6108GC further provides two x8 PCIe slots so you can have additional devices for information collection and communication.

Nuvo-6108GC comes with sophisticated power design to handle heavy power consumption and power transient of a 250W GPU. Furthermore, to have reliable GPU performance for industrial environments, Nuvo-6108GC inherits Neosys' patented design* of tuned cold air intake to effectively dissipate the heat generated by GPU. This unique design guarantees the operation at 60°C with 100% GPU loading and make Nuvo-6108GC extremely reliable for demanding field usage.

Specifications

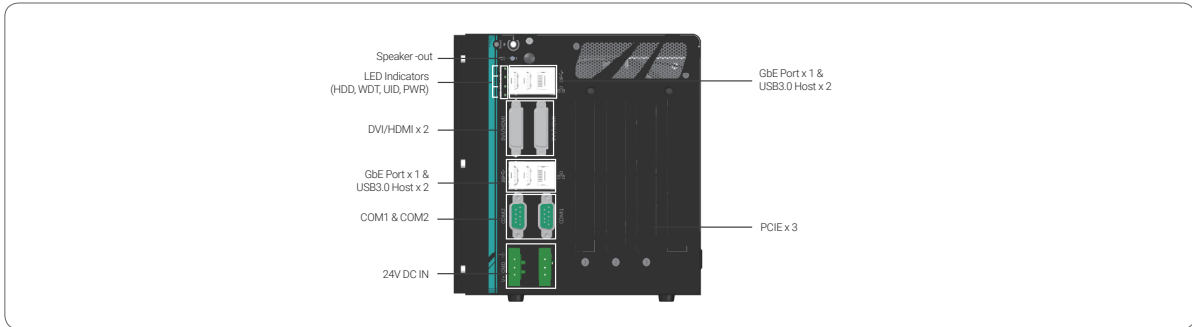
| System Core | | Expansion Bus | | | |
|--|---|-----------------------|--|--|--------------------------------------|
| Processor | Intel® Xeon® E3 v5 and 6th-Gen Core™ LGA1151 CPU | PCI Express | 1x PCIe x16 slot @ Gen3, 16-lanes PCIe signals for GPU | | |
| | - Intel® Xeon® Processor E3-1275 v5 (8M Cache, 3.6/4.0 GHz)* | | 2x PCIe x8 slot @ Gen3, 4-lanes PCIe signals | | |
| | - Intel® Xeon® Processor E3-1268L v5 (8M Cache, 2.4/3.4 GHz) | Power Supply | DC Input | 1x 2x3-pin pluggable terminal block for 24 VDC input | |
| | - Intel® Core™ i7-6700 (8M Cache, 3.4/4.0 GHz)* | | Mechanical | Dimension | 164 mm (W) x 360 mm (D) x 174 mm (H) |
| | - Intel® Core™ i5-6500 (6M Cache, 3.2/3.6 GHz)* | | | Mounting | Wall-mounting with damping bracket |
| - Intel® Core™ i7-6700TE (8M Cache, 2.4/3.4 GHz) | Environmental | Operating Temperature | -25°C ~ 60°C with 100% CPU/GPU loading **/** | | |
| - Intel® Core™ i5-6500TE (6M Cache, 2.3/3.3 GHz) | | Storage Temperature | -40°C ~ 85°C | | |
| Chipset | Intel® C236 Platform Controller Hub | Humidity | 10%~90% , non-condensing | | |
| Graphics | Independent GPU via x16 PEG port, or Integrated Intel® HD 530 Controller | Vibration | Operating, 0.5 Grms, 5-500 Hz, 3 Axes (w/ GPU, fan and HDD), according to IEC60068-2-64) | | |
| Memory | Up to 32 GB ECC/non-ECC DDR4-2133 | EMC | CE/FCC Class A, according to EN 55022 & EN 55024 | | |
| I/O Interface | | | | | |
| Ethernet | 1x Gigabit Ethernet port by Intel® I219-LM | | | | |
| | 1x Gigabit Ethernet port by Intel® I210-IT | | | | |
| Naive Video Port | 2x DVI-D connectors for DVI/HDMI outputs, supporting 1920x1200 resolution | | | | |
| Serial Port | 2x Software-programmable RS-232/422/485 ports | | | | |
| USB | 4x USB 3.0 ports | | | | |
| Audio | 1x Speaker-out | | | | |
| Storage Interface | | | | | |
| SATA | 4x SATA ports for 2.5" HDD/SSD installation, supporting RAID 0/1/5/10 | | | | |

* CPU with 65W/80W TDP shall be configured to operate with maximal 45W TDP due to thermal consideration.
 ** The CPU and GPU 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.

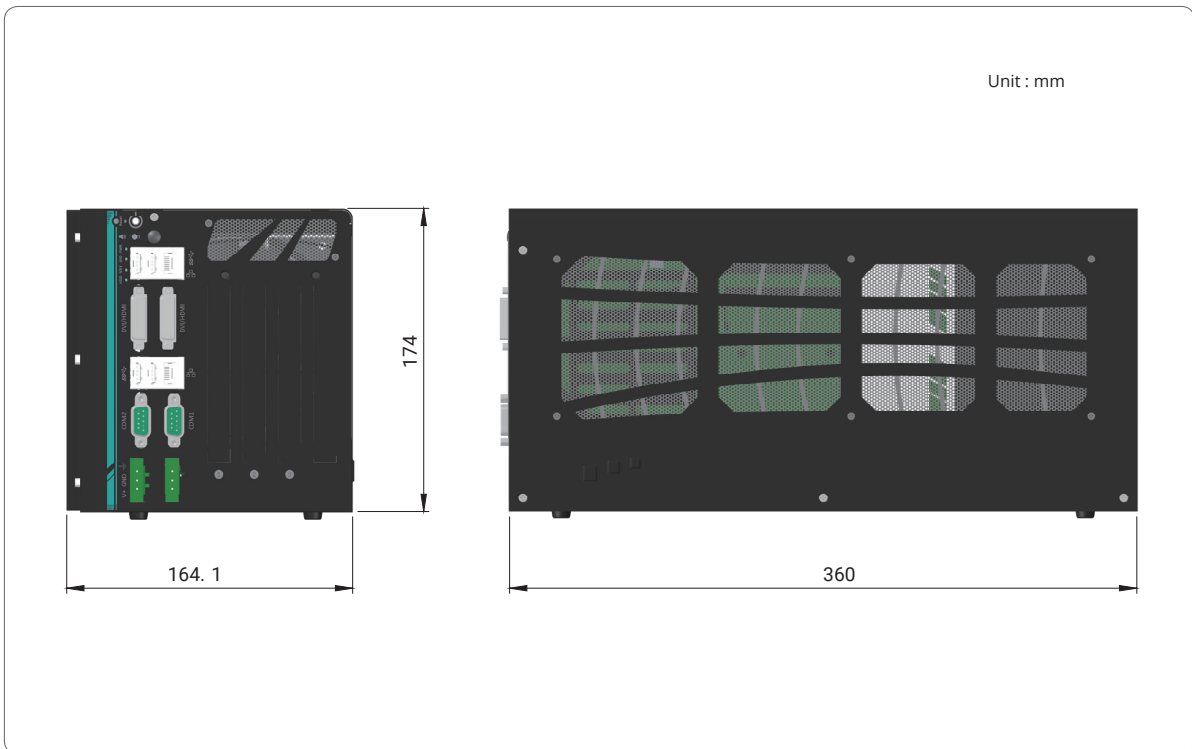
Nuvo-6108GC Series

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Appearance



Dimensions



Ordering Information

| Model No. | Product Description |
|-------------|--|
| Nuvo-6108GC | Industrial-grade GPU Computing Platform with 250W nVidia® GPU and Intel® Xeon® E3 v5 and 6th-Gen Core™ Processor |

Optional Accessories

24V, 280W AC/DC power adapter

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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