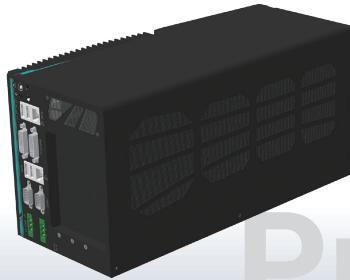


GPU Computing

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

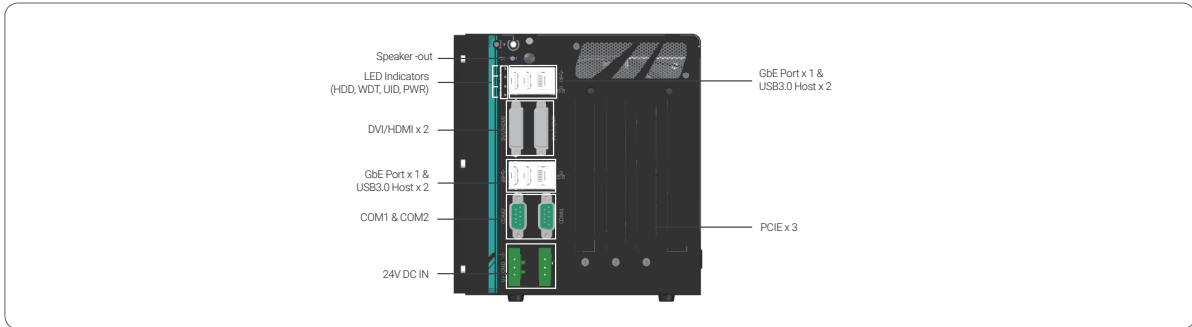
System Core		Expansion Bus			
Processor	Intel® Xeon® E3 v5 and 6th-Gen Core™ LGA1151 CPU	PCI Express	1x PCIe x16 slot @ Gen3, 16-lanes PCIe signals for GPU		
	- Intel® Xeon® Processor E3-1275 v5 (8M Cache, 3.6/4.0 GHz)*		2x PCIe x8 slot @ Gen3, 4-lanes PCIe signals		
	- Intel® Xeon® Processor E3-1268L 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.

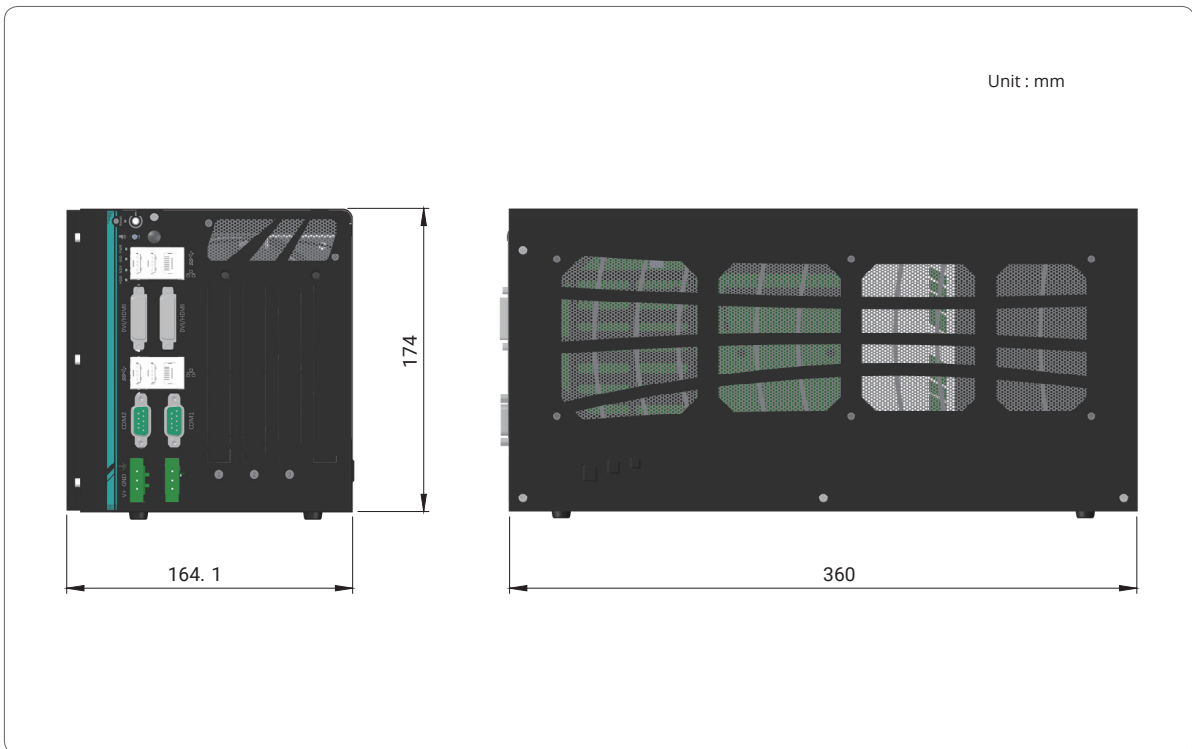
Nuvo-6108GC Series

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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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660