

Nuvo-6108GC

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



🖊 Key Features

- · Supports Intel[®] Xeon[®] E3 v5 or 6th-Gen Core[™] i7/ i5 LGA1151 CPU
- Supports NVIDIA[®] GPU (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 USB3.0 ports
- · Four 2.5" SATA hard drives with RAID 0/ 1/ 5/ 10 support
- Automatic temperature sensing and fan control
- · Patented damping brackets* to withstand 1 Grms vibration

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*R.O.C Patent No. M534371 / M491752

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 250W NVIDIA[®] GPU.

Leveraging Intel[®] C236 chipset, Nuvo-6108GC supports Xeon[®] E3 v5 or 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, USB3.0 and serial ports. In addition to the x16 PCIe port for GPU installation, Nuvo-6108GC also has two x8 PCIe slots so you can install additional high performance expansion card with high bandwidths for data collections/ analytics 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 utilizes Neousys' patented design*, a tuned cold air intake to effectively dissipate the heat generated by GPU. This unique design guarantees operation at 60°C under 100% GPU loading, making Nuvo-6108GC extremely reliable for demanding field applications.

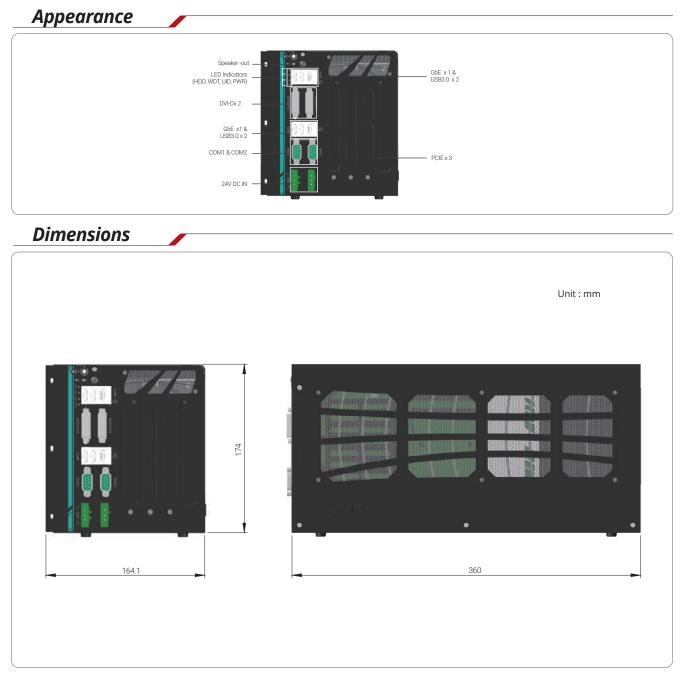
Specifications

System Core		Expansion Bus/	/ Internal I/O Interface
Processor	Intel [®] Xeon [®] E3 v5 or 6th-Gen Core [™] LGA1151 CPU - Intel [®] Xeon [®] Processor E3-1275 v5 (8M Cache, 3.6/ 4.0 GHz) - Intel [®] Xeon [®] Processor E3-1268L v5 (8M Cache, 2.4/ 3.4 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 3.4/ 4.0 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 3.2/ 3.6 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 2.4/ 3.4 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 2.4/ 3.4 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 2.4/ 3.4 GHz)	PCI Express	1x PCle x16 slot @ Gen3, 16-lanes PClE signals for GPU 2x PCle x8 slot @ Gen3, 4-lanes PClE signals
		M.2	1x M.2 B key socket for 3G/4G options with SIM socket
		mini-PCle	1x full-size mini PCI Express socket
		Remote Ctrl. & Status Output	1x 2x6-pin 2.0mm pin-header connector for remote on/ off control and status LED output
Chipset	Intel [®] C236 platform controller hub	Power Supply	
Graphics	Independent GPU via x16 PEG port, or integrated Intel [®] HD 530 controller	DC Input	1x3-pin pluggable terminal block for 24 VDC input
Memory	Up to 32 GB ECC/ non-ECC DDR4-2133	Remote Ctrl. &	1x3-pin pluggable terminal block for remote on/ off control
I/O Interface		Status Output	
Ethernet	1x Gigabit Ethernet port by Intel [®] I219-LM 1x Gigabit Ethernet port by Intel [®] I210-IT	Mechanical	
		Dimension	164 mm (W) x 360 mm (D) x 174 mm (H)
Native Video Port	2x DVI-D connectors for DVI outputs, supporting 1920x1200 resolution	Weight	4.7 kg (incl. CPU, GPU, memory and HDD)
		Mounting	Wall-mount with damping brackets
Serial Port	2x software-programmable RS-232/ 422/ 485 ports	Environmental	
USB	4x USB3.0 ports	Operating Temperature	-25°C ~ 60°C with 100% CPU/ GPU loading **/***
Audio	1x Speaker-out		
Storage Interface		Storage	-40°C ~ 85°C
SATA	4x SATA ports for 2.5" HDD/ SSD installation, supporting RAID 0/ 1/ 5/ 10	Temperature	10%~90% , non-condensing
	Sobberra 2 rand et al 2 re	Vibration	Operating, 1 Grms, 5-500 Hz, 3 Axes (w/ GPU, fan and HDD), according to IEC60068-2-64)
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 EMC
 CE/ FCC Class A, according to EN 55022, EN 55024 & EN 55032

 ** The CPU and GPU loading are applied using Passmark* BurnInTest 8.0 with 35 TDP CPU. Operating Temperature degrades with higher TDP CPU. For detail testing oriteria, please contact Neousys Technology ** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.





Ordering Information

Model No.	Product Description		
Nuvo-6108GC	Industrial-grade GPU computing platform supporting 180W NVIDIA® GTX-1080 and Intel® Xeon® E3 v5 and 6th-Gen Core™ processor		
Nuvo-6108GC-TI	Industrial-grade GPU computing platform supporting 250W NVIDIA [®] GTX-1080 Ti and Intel [®] Xeon [®] E3 v5 and 6th-Gen Core™ processor		

Optional Accessories

PA-280W-ET2	280W AC/DC power adapter 24V/11.67A; 16AWG/100cm; cord end terminals for terminal block, operating temperature : -30 to 60 °C.	
PA-480W-DIN	480W AC-DC power adapter DIN-rail mount, 24V 20A, 90~264VAC/127~370VDC, terminal block, -20 to70°C, Meanwell SDR-480-24	