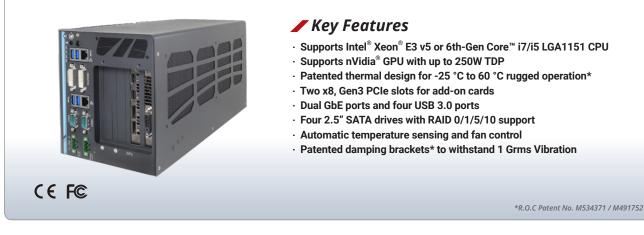
Nuvo-6108GC

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



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 GPU with up to 250W TDP. 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, USB 3.0 and serial ports. In addition to the x16 PCle port for GPU installation, Nuvo-6108GC further provides two x8 PCle 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 Neousys' 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

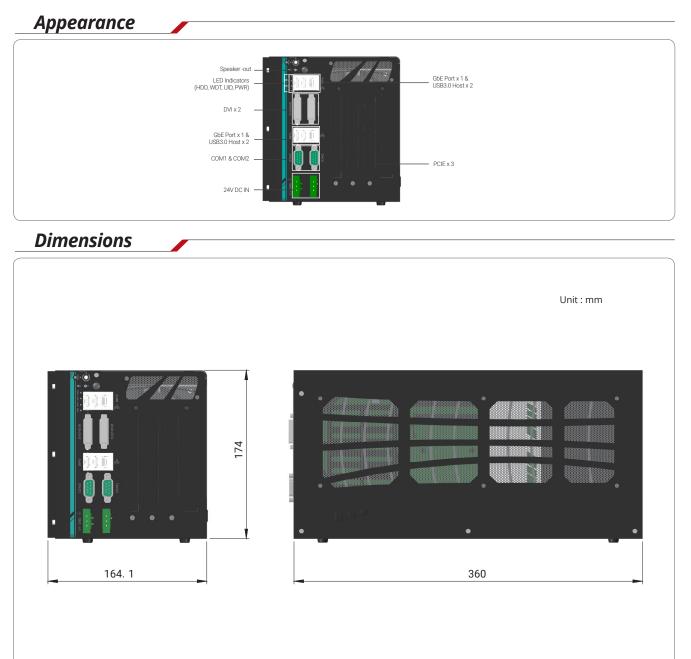
System Core		Expansion Bus/ Internal I/O Interface	
Processor	Intel [®] Xeon [®] E3 v5 or 6th-Gen Core [™] LGA1151 CPU - Intel [®] Xeon [®] Processor E3-1275 v5 (8M Cache, 3.6/4.0 GHz) - Intel [®] Xeon [®] Processor E3-1268L v5 (8M Cache, 2.4/3.4 GHz) - Intel [®] Core [™] i5-6500 (8M Cache, 3.4/4.0 GHz) - Intel [®] Core [™] i5-6500 (6M Cache, 3.2/3.6 GHz) - Intel [®] Core [™] i5-6500TE (8M Cache, 2.4/3.4 GHz) - Intel [®] Core [™] i5-6500TE (6M Cache, 2.3/3.3 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	•	
Graphics	Independent GPU (250W TDP) via x16 PEG port, or Integrated Intel® HD 530 Controller	- Power Supply	
		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		Mechanical	
Ethernet	1x Gigabit Ethernet port by Intel [®] l219-LM 1x Gigabit Ethernet port by Intel [®] l210-IT	Dimension	164 mm (W) x 360 mm (D) x 174 mm (H)
		Weight	4.7 kg (incl. CPU, GPU, memory and HDD)
Native Video Port	2x DVI-D connectors for DVI outputs, supporting 1920x1200 resolution	Mounting	Wall-mounting with damping brackets
Serial Port	2x Software-programmable RS-232/422/485 ports	Environmental	
USB	4x USB 3.0 ports	Operating Temperature	-25°C ~ 60°C with 100% CPU/GPU loading **/***
Audio	1x Speaker-out	Storage	
Storage Interface		Temperature	-40°C ~ 85°C
SATA	4x SATA ports for 2.5" HDD/SSD installation,	Humidity	10%~90% , non-condensing
	supporting RAID 0/1/5/10	Vibration	Operating, 1 Grms, 5-500 Hz, 3 Axes (w/ GPU, fan and HDD) according to IEC60068-2-64)

EMC

** The CPU and GPU loading is 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.

CE/FCC Class A, according to EN55022, EN55024 & EN55032





Ordering Information

Model No.	Product Description		
Nuvo-6108GC	Industrial-grade GPU computing platform supporting selected nVidia® GTX 1080 GPU and Intel® Xeon® E3 v5 and 6th-Gen Core™ Processor		
Nuvo-6108GC-TI	Industrial-grade GPU computing platform supporting selected nVidia® GTX 1080 Ti GPU and Intel® Xeon® E3 v5 and 6th-Gen Core™ Processor		

Optional Accessories

24V, 280W AC/DC power adapter 24V, 480W AC/DC power supply

