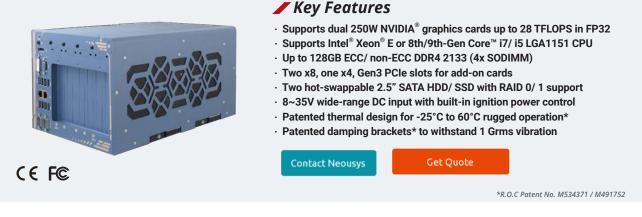


Nuvo-8208GC

Industrial-grade GPU Computing Platform Supporting Dual 250W NVIDIA® Graphics Card, Intel® Xeon® E or 8th/ 9th-Gen Core™ Processor



Introduction

Nuvo-8208GC is the world's first dual GPU platform with industrial-grade design and in-vehicle features. Designed specifically to support two highend 250W NVIDIA[®] graphics cards, it offers tremendous GPU power up to 28 TFLOPS in FP32 for emerging GPU-accelerated edge computing, such as autonomous driving, vision inspection and surveillance/ security.

Nuvo-8208GC is powered by Intel[®] Xeon[®] E or 8th/ 9th-Gen Core[™] 8-core/ 16-thread CPUs coupled with workstation-grade Intel[®] C246 chipset to support up to 128 GB ECC or non-ECC DDR4 memory. The system incorporates two hot-swappable 2.5" trays for easy HDD/ SSD replacement and an M.2 2280 NVMe socket for the ultimate disk performance. Its front-accessible GbE and USB 3.1 Gen1/ Gen2 ports feature screw-lock mechanisms for securing cable connections. In addition to the dual x16 PCIe slots for GPU installation, Nuvo-8208GC has two other x8 PCIe slots and one x4 PCIe slot for expansion cards to extend function sets like data collection, analytics and communication.

Nuvo-8208GC has a brand new power delivery design to accept 8~35V wide-range DC input and to handle heavy power requirements from dual 250W GPUs. Along with built-in ignition control, it's feasible to deploy it on a vehicle and directly power it via the car's power system. Mechanical wise, Nuvo-8208GC incorporates Neousys' patented heat dissipation design*, damping brackets* and patent-pending GPU press bar, making it steady and rock-solid in various conditions.

The Nuvo-8208GC is Neousys' response to the never-ending demand of TFLOPS in industrial GPU platforms. With industrial-grade power, thermal and mechanical design, it pushes versatile Al inference applications from laboratories to field applications, where reliability matters.

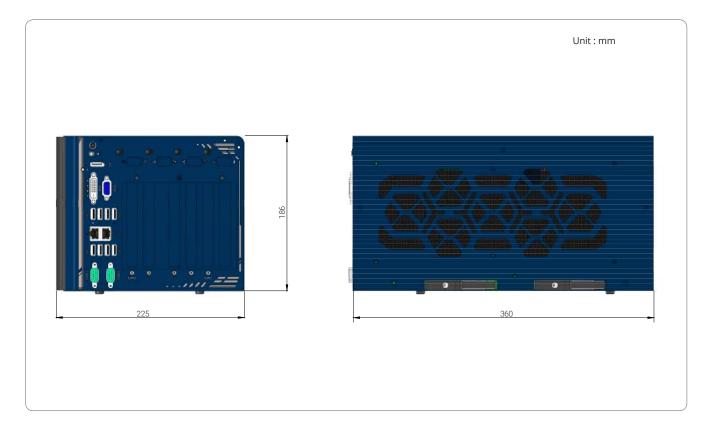
Specifications

System Core		Expansion Bus/ Internal I/O Interface	
Processor	Supporting Intel [®] Xeon [®] E and 8th/9th-Gen CPU (LGA1151 socket) - Intel [®] Xeon [®] Processor E 2176G - Intel [®] Xeon [®] Processor 2278GE (8C/16T) - Intel [®] Core [™] i7-8700, i7-8700T, i7-9700E, i7-9700TE - Intel [®] Core [™] i5-8500, i5-8500T, i5-9500E, i5-9500TE - Intel [®] Core [™] i3-8100, i3-8100T, i3-9100E, i3-9100TE	PCI Express	2x PCle x16 slot@Gen3, 8-lanes 2x PCle x8 slots@Gen3, 4-lanes 1x PCle x4 slot@Gen3, 1-lane
		M.2	1x M.2 2242 B key socket supporting dual SIM mode with selected M.2 LTE module
		mini-PCle	2x full-size mini PCI Express socket
Chipset	Intel [®] C246 platform controller hub	Power Supply	
Graphics	Independent GPU via x16 PEG port, or integrated Intel [®] UHD Graphics 630	DC Input	2x 4-pin pluggable terminal block for 8~35V DC input with ignition control
Memory	Up to 128 GB ECC/ non-ECC DDR4 2133 SDRAM (four SODIMM slots)	Mechanical	
AMT	Supports AMT 12.0	Dimension	225 mm (W) x 360 mm (D) x 186 mm (H)
ТРМ	Supports TPM 2.0	Weight	8.6 Kg
I/O Interface		Mounting	Wall-mount with damping brackets
1x Gigabit Ethernet part by Intel [®] 1210 J M		Environmental	
Ethernet	1x Gigabit Ethernet port by Intel [®] I210-IT		with 35W CPU and dual NVIDIA® 250W GPU
Native Video Port	1x VGA connector, supporting 1920 x 1200 resolution 1x DVI-D connector, supporting 1920 x 1200 resolution 1x DisplayPort connector, supporting 4096 x 2304 resolution	Operating Temperature	-25°C ~ 60°C *** with >= 65W CPU and dual NVIDIA® 250W GPU -25°C ~ 60°C **/ *** (configured as 35W TDP mode) -25°C ~ 50°C **/ *** (configured as 65W TDP mode)
Serial Port	2x software-programmable RS-232/ 422/ 485 ports (COM1/ COM2)	Storage Temperature	-40°C ~ 85°C
USB	4x USB 3.1 Gen2 (10 Gbps) ports 4x USB 3.1 Gen1 (5 Gbps) ports 1x USB 2.0 ports (internal for dongle use)	Humidity	10%~90% , non-condensing
		Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4; and 3 Grms, 5-500 Hz, 3 Axes
Audio	1x Speaker-out	-	· · · · · · · · · · · · · · · · · · ·
Storage Interface		Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
SATA	2x hot-swappable HDD trays for 2.5" HDD/ SSD installation	EMC	CE/ FCC Class A, according to EN 55024 & EN 55032
M.2	1x M.2 2280 M key socket (PCle Gen3 x4) for NVMe SSD or Intel [®] Optane™ memory installation	* For i7-8700 and i7-970C running at 65W mode, the highest operating term particle in SDS14 at 14 S	
mSATA	2x full-size mSATA port (mux with mini-PCle)		



Appearance

Dimensions



Ordering Information

Model No.	Product Description		
Nuvo-8208GC	Industrial-grade GPU computing platform supporting dual 250W NVIDIA [®] graphics cards, Intel [®] Xeon [®] E or 8th/ 9th-Gen Core [™] processor with 8~35V DC input and ignition control		