NUVO-8108GC SERIES INDUSTRIAL COMPUTERS

New!

N8108GC-I7-65W

- Intel® Xeon® E / 8th Gen. Core™ processors
- GPU support: up to 250W cards
- Four PCI Express slots
- Up to 128GB ECC/non-ECC RAM

PRODUCT DESCRIPTION

Nuvo-8108GC is a rugged edge AI platform with industrial-grade design and in-vehicle features. Designed specifically to support a high-end 250W NVIDIA® graphics card, it offers tremendous GPU power up to 14 TFLOPS in FP32 for emerging GPU-accelerated edge computing, such as autonomous driving, vision inspection and surveillance/ security.
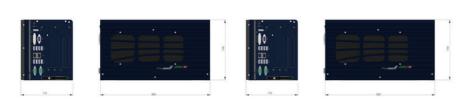
Nuvo-8108GC is powered by Intel® Xeon® E or 9th/ 8th-Gen Core™ (up to 8-core/ 16-thread) CPUs coupled with workstation-grade Intel® C246 chipset to support up to 128 GB ECC or non-ECC DDR4 memory. The system incorporates an internal 2.5" HDD/ SSD tray and one hot-swappable 2.5" HDD/ SSD tray for easy replacement. There is also an M.2 2280 NVMe socket for the fast read/ write performance. Its front-accessible GbE and USB 3.1 Gen1/ Gen2 ports feature screw-lock mechanisms for securing cable connections. In addition to the x16 PCIe slot (8-lanes) for GPU installation, Nuvo-8108GC has other two x8 PCIe slots (4-lanes) and one x16 PCIe slot (8-lanes) for expansion cards to extend function sets like data collection,analytics and communication.

Nuvo-8108GC has a brand new power delivery design to accept 8~35V wide-range DC input and to handle heavy power requirements from 250W GPU. 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-8108GC 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-8108GC 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 AI inference applications from laboratories to field applications, where reliability matters.

SPECIFICATIONS

AMT	AMT 12.0
Chipset	Intel® C246 Platform Controller Hub
Depth	360 mm
GPU	Yes
Hard Drive Interface - Mini-Pcie	2x full-size mini PCI Express
Hard Drive Interface - MSATA	2x full-size mSATA
Hard Drive Interface - SATA	1x hot-swap 2.5", 1x 2.5" (RAID 0/1 support)
Height	198 mm
Humidity	10%~90% , non-condensing
I / O Ports - Audio	1x Speaker-out

I / O Ports - Connection	4+4 channel isolated digital I/O
I / O Ports - Ethernet Port	2x Gigabit Ethernet (Intel® I219-LM/I210-IT)
I / O Ports - Serial	2x software-programmable RS-232/422/485 ports (COM1/ COM2)
I / O Ports - USB	4x USB 3.1 Gen2 (10 Gbps), 4x USB 3.1 Gen1 (5 Gbps), 1x USB 2.0 (internal for dongle use)
I / O Ports - Video	1x VGA (1920x1200), 1x DVI-D (1920x1200), 1x DisplayPort (4096x2304)
I/O ports - M.2	1x M.2 2280 M key (PCIe Gen3 x4 NVMe/Optane)
I/O ports - PCI Express	2x PCIe Gen3 x16@x8, 2x PCIe Gen3 x8@4
Ignition Control	Built-in, on DC input
Memory RAM	128 GB
Mounting	Damping brackets (standard)
Processor	Intel® Core™ i7-8700
Supply Voltage DC Max	48 V DC
Supply Voltage DC Min	8 V DC
Temperature range bearing, from	-40 °C
Temperature range bearing, to	85 °C
Temperature range from	-25 °C
Temperature range to	50 °C
TPM	TPM 2.0
Type of memory	4x ECC/non-ECC DDR4 2133 SDRAM SODIMM)
Weight	5 kg
Width	170 mm