

NUVO-8108GC SERIES INDUSTRIAL COMPUTERS

New!

N8108GC-I3
Nuvo-8108GC Core i3-8100T (35W TDP)

- 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

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| 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 | 86 mm |
| Humidity | 10%~90% , non-condensing |
| I / O Ports - Audio | 1x Speaker-out |

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| 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™ i3-8100T |
| Supply Voltage DC Max | 35 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 |
| Type of memory | 4x ECC/non-ECC DDR4 2133 SDRAM SODIMM) |
| Weight | 5 kg |
| Width | 170 mm |

