

# Nuvo-8240GC

Industrial-grade GPU computing Edge AI platform supporting dual NVIDIA® L4/ T4/ A2 and Intel® Xeon® E and 9th/ 8th-Gen Core™ processor



## Key Features

- Supports dual NVIDIA® L4/ T4/ A2 GPU
- Supports Intel® Xeon® E or 9th/ 8th-Gen Core™ i7/ i5 LGA1151 CPU
- Up to 128GB ECC/ non-ECC DDR4 2133 (4x SODIMM)
- Two x8 (4-lanes), Gen3 PCIe slots for add-on cards
- 1x M.2 M key, 1x M.2 B key and 2x full-size mini-PCIe sockets
- 8 to 48V wide-range DC input with built-in ignition power control
- Proven thermal design for -25°C to 60°C rugged operation\*
- Patented damping brackets\* to withstand 3 Grms vibration

[CONTACT US](#)
[GET QUOTE](#)

\*R.O.C Patent No. M491752

## Introduction

Nuvo-8240GC is a rugged edge AI GPU computing platform designed specifically to support dual NVIDIA® L4/ T4/ A2 GPUs for advanced inference acceleration applications. It features NVIDIA® multi-precision NVIDIA® Ada Lovelace Cores while offering tremendous GPU power up to 484 TFLOPS in FP16 and 970 TOPS in INT8 for emerging GPU-accelerated edge computing and advanced AI inference. In addition, Nuvo-8240GC is powered by Intel® Xeon® E or 9th/ 8th-Gen Core™ CPU up to 8-core/ 16-thread coupled with workstation-grade Intel® C246 chipset to support up to 128 GB ECC or non-ECC DDR4 memory.

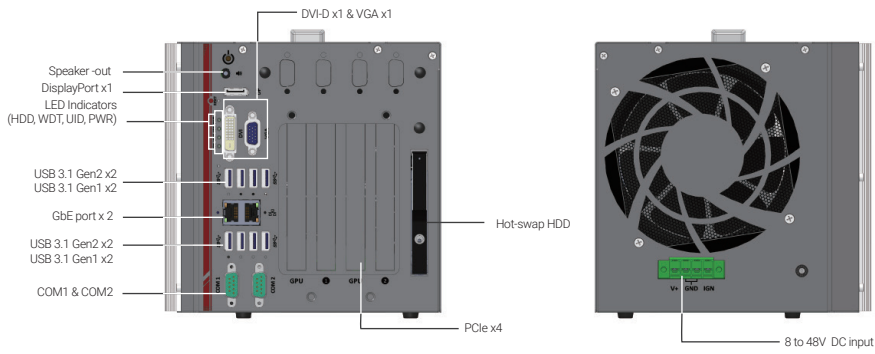
The system incorporates one internal 2.5" SATA HDD/ SSD slot and one hot-swappable 2.5" tray for easy HDD/ SSD replacement. There is also an M.2 2280 NVMe SSD socket for ultimate disk performance. Its front-accessible GbE and USB 3.1 Gen1/ Gen2 ports feature screw-lock mechanisms for secure cable connections. In addition to the dual x16 PCIe slots (8-lanes) for NVIDIA® L4/ T4/ A2 installation, Nuvo-8240GC has other two x8 PCIe slots (4-lanes) for expansion cards to extend function sets, making it that much more flexible for specific applications such as data collection, analytics and communication.

Nuvo-8240GC has a brand new power delivery design to accept 8 to 48V wide-range DC input with built-in ignition control. Mechanical wise, Nuvo-8240GC incorporates Neosys' proven heat dissipation design, damping brackets\* for withstanding 3 Grms vibration, making it steady and rock-solid in various conditions. The Nuvo-8240GC is Neosys' response to the never-ending performance demand in industrial edge AI platforms and now with double the inference power, Nuvo-8240GC is ready to take it to the next level.

## Specifications

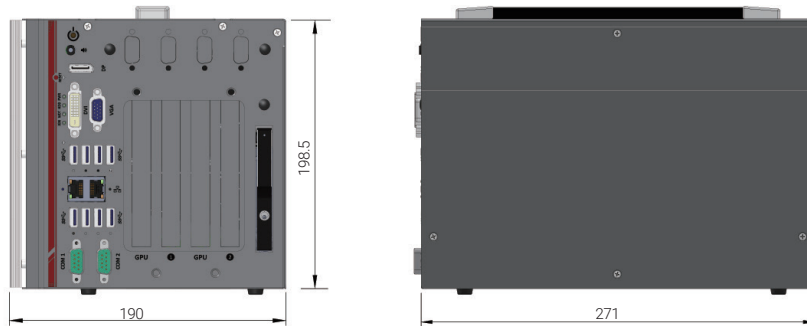
| System Core              |   | Expansion Bus   |  |
|--------------------------|---|---|--|
| <b>Processor</b>         | Supporting Intel® Xeon® E and 9th/ 8th-Gen CPU (LGA1151 socket)<br>- Xeon E 2176G/ 2278GE (8C/16T) / 2278GEL (8C/16T)<br>- i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T<br>- i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T<br>- i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T | <b>PCI Express</b>  | 2x PCIe x16 slot@Gen3, 8-lanes<br>2x PCIe x8 slots@Gen3, 4-lanes   |
| <b>Chipset</b>           | Intel® C246 Platform Controller Hub   | <b>M.2</b>  | 1x M.2 2242 B key socket supporting dual SIM mode with selected M.2 LTE module   |
| <b>Graphics</b>          | Integrated Intel® UHD Graphics 630  | <b>Mini-PCIe</b>  | 2x full-size mini PCI Express socket   |
| <b>Memory</b>            | Up to 128 GB ECC/ non-ECC DDR4 2133 SDRAM (four SODIMM slots)   | <b>Power Supply</b>   |  |
| <b>AMT</b>               | Supports AMT 12.0   | <b>DC Input</b>   | 1x 4-pin pluggable terminal block for 8 to 48V DC input with ignition control  |
| <b>TPM</b>               | Supports TPM 2.0  | <b>Mechanical</b>   |  |
| <b>I/O Interface</b>     |   | <b>Dimension</b>  | 190 mm (W) x 271 mm (D) x 198.5 mm (H)   |
| <b>Ethernet</b>          | 1x Gigabit Ethernet port by Intel® I219-LM<br>1x Gigabit Ethernet port by Intel® I210-IT  | <b>Weight</b>   | 5 kg   |
| <b>Video Port</b>        | 1x VGA, supporting 1920 x 1200 resolution<br>1x DVI-D, supporting 1920 x 1200 resolution<br>1x DisplayPort, supporting 4096 x 2304 resolution   | <b>Mounting</b>   | Wall-mount with damping brackets   |
| <b>Serial Port</b>       | 2x software-programmable RS-232/ 422/ 485 ports (COM1/COM2)   | <b>Environmental</b>  |  |
| <b>USB 3.1</b>           | 4x USB 3.1 Gen2 (10 Gbps) ports<br>4x USB 3.1 Gen1 (5 Gbps) ports   | <b>Operating Temperature</b>  | <b>with 35W CPU</b><br>-25°C to 60°C **/***<br><b>with 65W CPU</b><br>-25°C to 60°C **/*** (configured as 35W TDP mode)<br>-25°C to 50°C **/*** (configured as 65W TDP mode)<br>In compliance with NVIDIA® L4/ T4/ A2 warranty policy, an operating temperature of 0°C to 50°C is required for systems with NVIDIA® L4/ T4/ A2 installed |
| <b>USB 2.0</b>           | 1x USB 2.0 ports (internal use)   | <b>Storage Temperature</b>  | -40°C to 85°C  |
| <b>Audio</b>             | 1x 3.5 mm jack for mic-in and speaker-out   | <b>Humidity</b>   | 10% to 90% , non-condensing  |
| <b>Storage Interface</b> |   | <b>Vibration</b>  | Operating, MIL-STD-810G, Method 514.6, Category 4 and 3Grms  |
| <b>SATA</b>              | 1x hot-swappable HDD tray for 2.5" HDD/ SSD installation<br>1x Internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1  | <b>Shock</b>  | Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II   |
| <b>M.2</b>               | 1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD or Intel® Optane™ memory installation  | <b>EMC</b>  | CE/FCC Class A, according to EN 55032 & EN 55024   |
| <b>mSATA</b>             | 2x full-size mSATA port (mux with mini-PCIe)  | <p>** For i7-9700E and i7-8700 running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature.</p> <p>*** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.</p> |  |

**Appearance**



**Dimensions**

Unit : mm



**Ordering Information**

| Model No.   | Product Description  |
|-------------|--|
| Nuvo-8240GC | Industrial-grade edge AI platform supporting dual NVIDIA® L4/ T4/ A2 and Intel® Xeon® E and 9th/ 8th-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°C to 60°C |
|-------------|--|