

# Nuvo-8240GC

Industrial-grade edge AI platform supporting dual NVIDIA® Tesla T4 and Intel® Xeon® E and 9th/8th-Gen Core™ processor



### 🖊 Key Features

- · Supports dual NVIDIA® Tesla T4 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
- · 8~48V 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

\*R.O.C Patent No. M491752

## Introduction

Nuvo-8240GC is a rugged edge AI platform designed specifically to support dual NVIDIA® Tesla T4 for advanced inference acceleration applications. It features NVIDIA multi-precision Turing Tensor Cores offering tremendous GPU power up to 130 TFLOPS in FP16 and 520 TOPS in INT4 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.

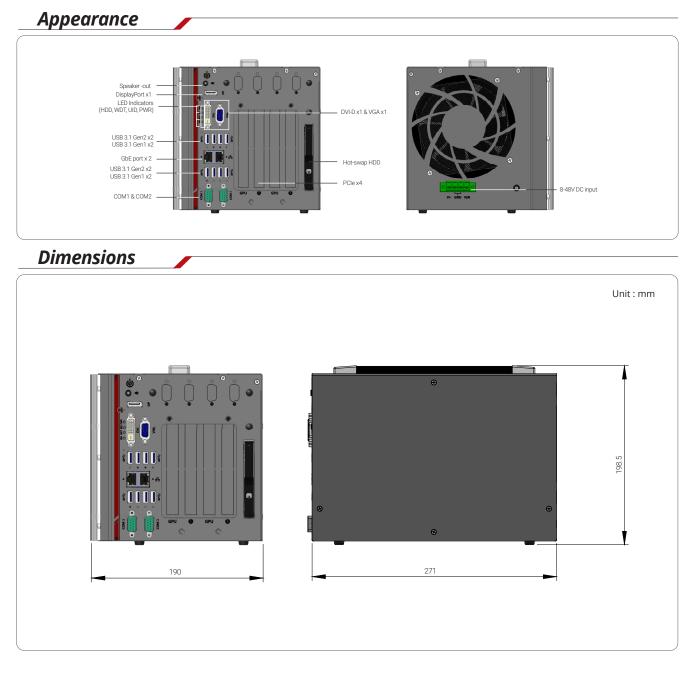
The system incorporates one internal 2.5" SATA HDD/ SSD slot and one hot-swappable 2.5" tray for easy HDD/ SSD replacement. There is also an M.2 2280 NVMe SSD socket for ultimate disk performance . Its front-accessible GbE and USB 3.1 Gen1/ Gen2 ports feature screw-lock mechanisms for secure cable connections. In addition to the dual x16 PCIe slots (8-lanes) for Tesla T4 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 8~48V wide-range DC input with built-in ignition control. Mechanical wise, Nuvo-8240GC incorporates Neousys' proven heat dissipation design, damping brackets\* for withstanding 3 Grms vibration, making it steady and rocksolid in various conditions. The Nuvo-8240GC is Neousys' 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** Supporting Intel® Xeon® E and 9th/ 8th-Gen CPU (LGA1151 socket) 2x PCIe x16 slot@Gen3, 8-lanes PCI Express - Xeon E 2176G/ 2278GE (8C/16T) / 2278GEL (8C/16T) - i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T 2x PCIe x8 slots@Gen3, 4-lanes Processor 1x M.2 2242 B key socket supporting dual SIM mode i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T M.2 with selected M.2 LTE module - i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T Mini-PCle 2x full-size mini PCI Express socket Chipset Intel<sup>®</sup> C246 Platform Controller Hub **Power Supply** Graphics Integrated Intel<sup>®</sup> UHD Graphics 630 1x 4-pin pluggable terminal block for 8~48V DC input Up to 128 GB ECC/ non-ECC DDR4 2133 SDRAM DC Input Memory with ignition control (four SODIMM slots) Mechanical AMT Supports AMT 12.0 Dimension 190 mm (W) x 271 mm (D) x 198.5 mm (H) трм Supports TPM 2.0 Weight 5 kg I/O Interface Mounting Wall-mount with damping brackets 1x Gigabit Ethernet port by Intel® I219-LM Fthernet 1x Gigabit Ethernet port by Intel<sup>®</sup> I210-IT Environmental 1x VGA, supporting 1920 x 1200 resolution with 35W CPU Video Port ' \*/\*\* 1x DVI-D, supporting 1920 x 1200 resolution -25°C ~ 60°C \*/\*\* with 65W CPU -25°C ~ 60°C \*/\*\* (configured as 35W TDP mode) -25°C ~ 50°C \*/\*\* (configured as 65W TDP mode) In compliance with NVIDIA<sup>®</sup> Tesla T4 warranty policy, an operating 1x DisplayPort, supporting 4096 x 2304 resolution Operating Serial Port 2x software-programmable RS-232/ 422/ 485 ports (COM1/COM2) Temperature temperature of 0°C~50°C is required for systems with Tesla T4 installed 4x USB 3.1 Gen2 (10 Gbps) ports USB 3.1 4x USB 3.1 Gen1 (5 Gbps) ports **USB 2.0** 1x USB 2.0 ports (internal use) Storage -40°C ~ 85°C Temperature 1x 3.5 mm jack for mic-in and speaker-out Audio 10%~90%, non-condensing Humidity **Storage Interface** Vibration Operating, MIL-STD-810G, Method 514.6, Category 4 and 3Grms 1x hot-swappable HDD tray for 2.5" HDD/ SSD installation SATA 1x Internal SATA port for 2.5" HDD/ SSD installation, supporting Shock Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II RAID 0/ 1 CE/FCC Class A, according to EN 55032 & EN 55024 EMC 1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD M.2 \* 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 or Intel<sup>®</sup> Optane<sup>™</sup> memory installation om > ) Noot tind monor uning ut own indoe, i uk night so poletuli ig tengen word and o comme email throtting may occur when sustained full-loading applied. Users can configure CPU pow tain higher operating temperature. For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required. mSATA 2x full-size mSATA port (mux with mini-PCIe)

## **COASTIPC**

Nuvo-8240GC



## **Ordering Information**

Model No.	Product Description
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## **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  $60^{\circ}$ C