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 Al platform designed specifically to support dual NVIDIA® Tesla T4s for advanced inference acceleration applications. It features NVIDIA multi-precision Turing Tensor Cores and new RT Cores while offering tremendous GPU power up to 130 TFLOPS in FP16 and 520 TOPS in INT4 for emerging GPU-accelerated edge computing and advanced Al 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.

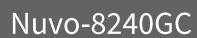
The system incorporates one internal 2.5" SATA HDD/ SSD slot and one hot-swappable 2.5" tray for easy HDD/ SSD replacement. There is also an M.2 2280 socket for the ultimate PCIe NVMe SSD. Its front-accessible GbE and USB 3.1 Gen1/ Gen2 ports feature screw-lock mechanisms for secure cable connections. In addition to the dual x16 PCIe slots (8-lanes) for graphics card 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 rock-solid 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

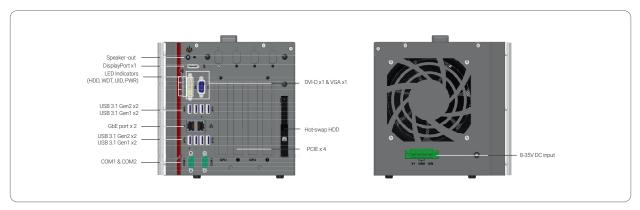
System Core		Expansion Bus		
_	Supporting Intel [®] Xeon [®] E and 9th/8th-Gen CPU (LGA1151 socket) - Xeon E 2176G (6C/12T) / 2278GE (8C/16T) / 2278GEL (8C/16T)	PCI Express	2x PCIe x16 slot@Gen3, 8-lanes 2x PCIe x8 slots@Gen3, 4-lanes	
Processor	- i7-9700E, i7-9700TE, i7-8700, i7-8700T - i5-9500E, i5-9500TE, i5-8500, i5-8500T - i3-9100E, i3-9100TE, i3-8100, i3-8100T	M.2	1x M.2 2242 B key socket supporting dual SIM mode with selected M.2 LTE module	
Chipset	Intel® C246 Platform Controller Hub	Mini-PCIe	2x full-size mini PCI Express socket	
Graphics	Integrated Intel® UHD Graphics 630	Power Supply		
Memory	Up to 128 GB ECC/ non-ECC DDR4 2133 SDRAM (four SODIMM slots)	DC Input	1x 4-pin pluggable terminal block for 8~48V DC input with ignition control	
AMT	Supports AMT 12.0	Mechanical		
TPM	Supports TPM 2.0	Dimension	170 mm (W) x 360 mm (D) x 186 mm (H)	
I/O Interface		Weight	5 kg	
Ethernet	1x Gigabit Ethernet port by Intel [®] 1219-LM 1x Gigabit Ethernet port by Intel [®] 1210-IT	Mounting Environmental	Wall-mount with damping brackets	
Video Port	1x VGA, supporting 1920 x 1200 resolution 1x DVI-D, supporting 1920 x 1200 resolution 1x DisplayPort, supporting 4096 x 2304 resolution	Operating Temperature	with 35W CPU 25°C ~ 60°C *** with 65W CPU 25°C ~ 60°C **, *** (configured as 25W TDP mode) 25°C ~ 50°C **, *** (configured as 65W TDP mode) In compliance with NVIDIA Tesla T4 warranty policy, an operating temperature of 0°C~50°C is required for systems with Tesla T4 installed	
Serial Port	2x software-programmable RS-232/ 422/ 485 ports (COM1/COM2)			
USB 3.1	4x USB 3.1 Gen2 (10 Gbps) ports 4x USB 3.1 Gen1 (5 Gbps) ports			
USB 2.0	1x USB 2.0 ports (internal for dongle use)	Storage	-40°C ~ 85°C	
Audio	1x Speaker-out	Temperature	-40 C~ 85 C	
Storage Inter	face	Humidity	10%~90%, non-condensing	
	1x hot-swappable HDD tray for 2.5" HDD/ SSD installation 1x Internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4 & 3Grms	
SATA		Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II	
		EMC	CE/FCC Class A, according to EN 55032 & EN 55024	
M.2	1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD or Intel® Optane™ memory installation	* For i7-9700E and i7-87	* For i7-9700E and i7-8700 running at 65W mode, the highest operating temperature shall be limited to 50°C and	
mSATA	2x full-size mSATA port (mux with mini-PCIe)	 thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature. 		
		For sub-zero operatin	a temperature, a wide temperature HDD or Solid State Disk (SSD) is required.	

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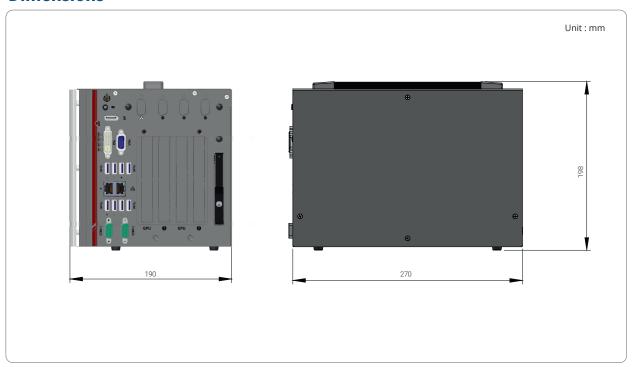




Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-8240GC	Industrial-grade edge Al platform supporting dual NVIDIA [®] Tesla T4 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

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