# **Nuvo-7200VTC Series**

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Intel® 8th/ 9th-Gen Core™ In-vehicle Controller with 4x or 8x PoE+ Ports, single-slot PCIe Cassette



### Introduction

Nuvo-7200VTC is the latest rugged in-vehicle controller featuring purpose-built set and effortless connectivity, powered by Intel<sup>®</sup> 8th/9th-Gen Core<sup>™</sup> processors with up to 6-core/8-core architecture and 64GB DDR4 memory that gets a significant performance increase over previous generations. Nuvo-7200VTC provides flexibility to support a range of peripherals and connections. It has four or eight 802.3at PoE+ ports to supply 25W power to connected devices via M12 or RJ-45 connectors. Screw-lock mechanisms on GbE and USB 3.1 ports guarantee extreme rugged connectivity in shock/ vibration environments. Wireless connectivity is essential for modern in-vehicle applications and you can simultaneously utilize two M.2 and three mini-PCle sockets with corresponding 3G/4G, WIFI, GPS, and CAN module for this purpose. Additionally, Neousys provides an option of 4G cellular module certified to work with renowned US telecom company to minimize implementation time and cost.

Thanks to Neousys' patented Cassette design, it has one additional PCIe slot in the Cassette module for an add-on card installation, making it that much more flexible. Nuvo-7200VTC also features two hot-swappable HDD trays, isolated CAN bus, isolated DIO, 8~35V wide-range DC input with ignition power control and is in compliance with E-Mark and EN 50155. The Nuvo-7200VTC is the perfect solution with extraordinary reliability for various in-vehicle application needs.

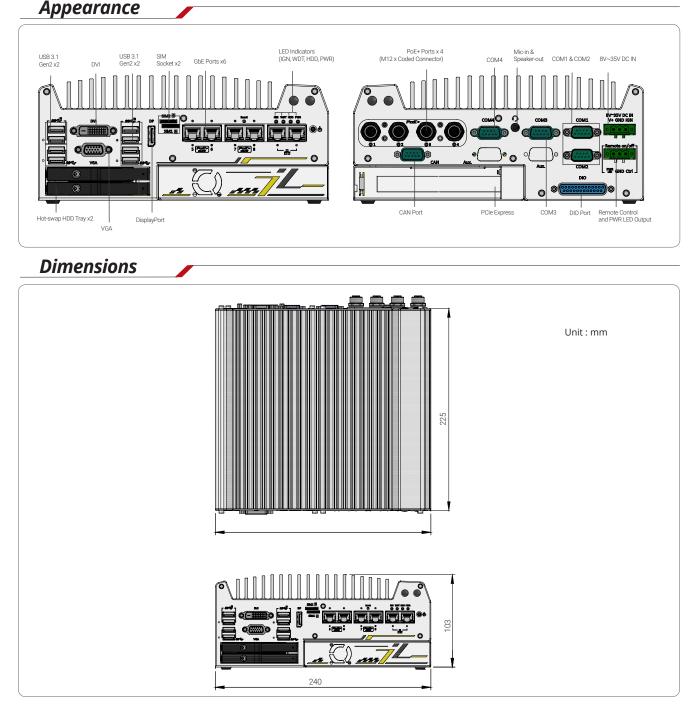
## Specifications

System Core		Expansion Bus	
	Supporting Intel <sup>®</sup> 8th/ 9th-Gen Core™ CPU (LGA1151 socket) - Intel <sup>®</sup> Core™ i7-8700T/ i7-9700TE	PCI Express	1x PCle x16 slot@Gen3, 16-lanes PCle signals in Cassette
Processor	- Intel® Core™ i5-8500T/ i5-9500TE - Intel® Core™ i3-8100T/ i3-9100TE	Mini PCI-E 1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM sockets	(mux with mSATA)
Chipset	Intel <sup>®</sup> Q370 platform controller hub		
Graphics	Integrated Intel <sup>®</sup> HD Graphics 630	M.2	2x M.2 2242 B key socket, one with dual front-accessible SIM
Memory	Up to 64 GB DDR4 2666/ 2400 SDRAM (two SODIMM slots)	-	sockets, supporting dual SIM mode with selected M.2 LTE module
AMT	Supports AMT 12.0	Power Supply	
ТРМ	Supports TPM 2.0	DC Input	1x 3-pin pluggable terminal block for 8~35V DC input (IGN/ GND/ V+)
I/O Interface		Remote Ctrl. &	1x 3-pin pluggable terminal block for
Ethernet	2x Gigabit Ethernet ports by Intel <sup>®</sup> I219 and I210	Status Output	remote control and PWR LED output
PoE+	4x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel <sup>®</sup> I210 - M12 x-coded connector (Nuvo-7200VTC); - RJ45 connector (Nuvo-7204VTC) 8x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel <sup>®</sup> I210	Mechanical	
		Dimension	240 mm (W) x 225 mm (D) x 103mm (H)
		Weight	3.7 kg
CAN	- RJ45 connector (Nuvo-7208VTC) 1x isolated CAN 2.0 port	Mounting	Neousys' patented damping bracket (standard) or optional DIN-rail mounting
Isolated DIO	4x isolated DI and 4x isolated DO	Environmenta	I
USB	4x USB 3.1 Gen2 (10 Gbps) ports 4x USB 3.1 Gen1 (5 Gbps) ports	Operating Temperature	-40°C ~ 70°C **
Video Port	1x VGA connector, supporting 1920 x 1200 resolution 1x DVI-D connector, supporting 1920 x 1200 resolution 1x DisplayPort connector, supporting 4096 x 2304 resolution	Storage Temperature	-40°C ~ 85°C
		Humidity	10%~90% , non-condensing
Serial Port	2x software-programmable RS-232/422/485 ports (COM1/ COM2) 2x RS-232 ports (COM3/ COM4)	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Audio	1x Mic-in and 1x speaker-out	Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
Storage Inter	face		EN 50155 (Nuvo-7200VTC),
SATA HDD	2x hot-swappable HDD tray for 2.5" HDD/ SSD installation	EMC	E-Mark (Nuvo-7208VTC)
mSATA	1x full-size mSATA port (mux with mini-PCIe)	CE/FCC Class A, according to EN 55022 & EN 55024	
M.2	1x M.2 2280 M key socket (PCle Gen3 x4) for NVMe SSD or Intel <sup>®</sup> Optane™ memory installation	* For 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. * For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.	

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## **Ordering Information**

Model No.	Product Description
Nuvo-7200VTC	Intel <sup>®</sup> 8th/9th-Gen Core™ in-vehicle controller with 4x M12 PoE+ ports, DIO, CAN bus and RAID, single-slot PCI Express Cassette
Nuvo-7204VTC	Intel <sup>®</sup> 8th/9th-Gen Core™ in-vehicle controller with 4x RJ45 PoE+ ports, DIO, CAN bus and RAID, single-slot PCI Express Cassette
Nuvo-7208VTC	Intel <sup>®</sup> 8th/9th-Gen Core™ in-vehicle controller with 8x RJ45 PoE+ ports, DIO, CAN bus and RAID, single-slot PCI Express Cassette

## **Optional Accessories**

Cbl-M12X8M-RJ45-50	M12 (8-pole-X-coded) to RJ45, CAT6, length : 500CM
Cbl-M12X8M-RJ45-10	M12 (8-pole-X-coded) to RJ45, CAT6, length : 1000CM
<b>PA-120W-OW</b> 12	W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.

## **Optional Cellular Module**

NSIO-LTE-7455 Cat. 6 LTE embedded socket modem