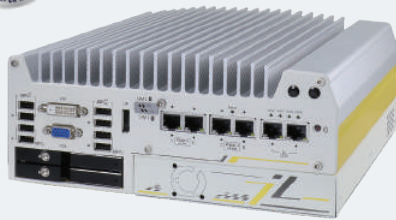


In-vehicle Computing



Nuvo-7200VTC Series

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



Key Features

- Supports Intel® 8th/ 9th Core™ i7/ i5/ i3 LGA1151 socket-type CPU
- 4x or 8x 802.3at Gigabit PoE+ ports via M12 or RJ45 connectors
- Onboard isolated CAN bus for in-vehicle communication
- 4-CH isolated DI and 4-CH isolated DO
- 2x hot-swappable SATA HDD trays, supporting RAID 0/1
- 2x M.2 B key and 3x full-size mini-PCIe sockets
- 8~35V wide-range DC input with built-in ignition power control
- Patented Cassette for PCIe add-on card accommodation*
- E-Mark and EN 50155 certificate

Contact Neosys

Get Quote

*R.O.C Patent No. M456527

Introduction

Nuvo-7200VTC is a rugged in-vehicle controller featuring Neosys' patented Cassette module with a x16 PCIe slot for add-on application card flexibility. Powered by Intel® 8th/ 9th Gen Core™ processors with up to 8-core/ 8-thread and 64GB DDR4 memory, the system is ideal for advance in-vehicle applications. Nuvo-7200VTC offers an assortment of peripherals, connections and expansion flexibility. It has four or eight 802.3at PoE+ ports to supply 25W power to connected devices such as IP cameras with M12 (x-coded connectors) and connector screw-lock mechanisms on I/Os like Gigabit Ethernet, USB3.0 and USB3.1 to guarantee extreme rugged connectivity in shock/ vibration environments. There are two M.2 and three mini-PCIe sockets to install 3G/ 4G, WIFI, GPS, and CAN module for wireless communication. Neosys also offers a 4G cellular module option certified to work with renowned US telecommunications company which can save you implementation time and cost.

On top of all that, Neosys' patented Cassette design offers one additional PCIe slot for an add-on card, making it that much more flexible for in-vehicle applications. Nuvo-7200VTC also features two hot-swappable SATA HDD trays, isolated CAN bus for in-vehicle communication, isolated DIO for sensor/ actuator control, 8~35V wide-range DC input with ignition power control and is in compliance with E-Mark and EN 50155. The Nuvo-7200VTC is a flexible and reliable solution for various in-vehicle applications.

Specifications

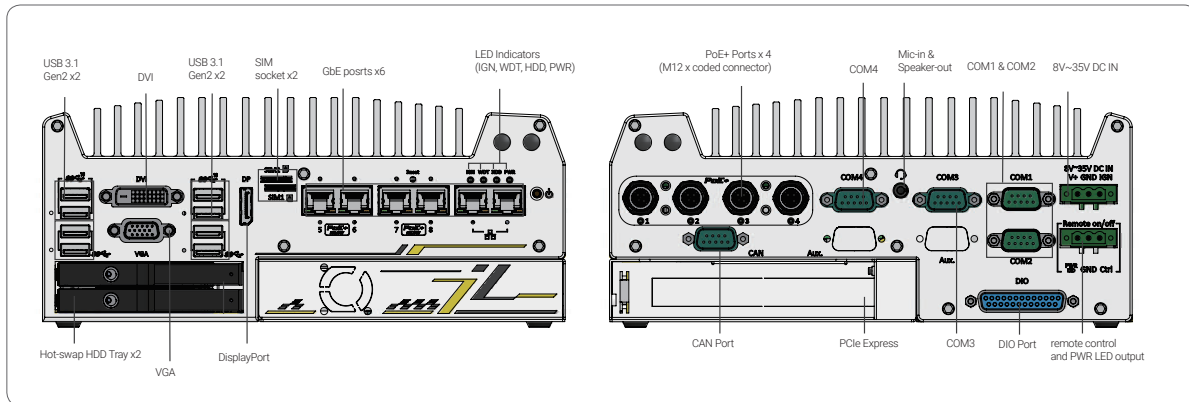
System Core		Expansion Bus	
Processor	Supports Intel® 8th/9th-Gen Coffee Lake CPU (LGA1151 socket, 35W TDP) - Intel® Core™ i7-8700T/ i7-9700TE - Intel® Core™ i5-8500T/ i5-9500TE - Intel® Core™ i3-8100T/ i3-9100TE	PCI Express	1x PCIe x16 slot@Gen3, 16-lanes PCIe signals in Cassette
Chipset	Intel® Q370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

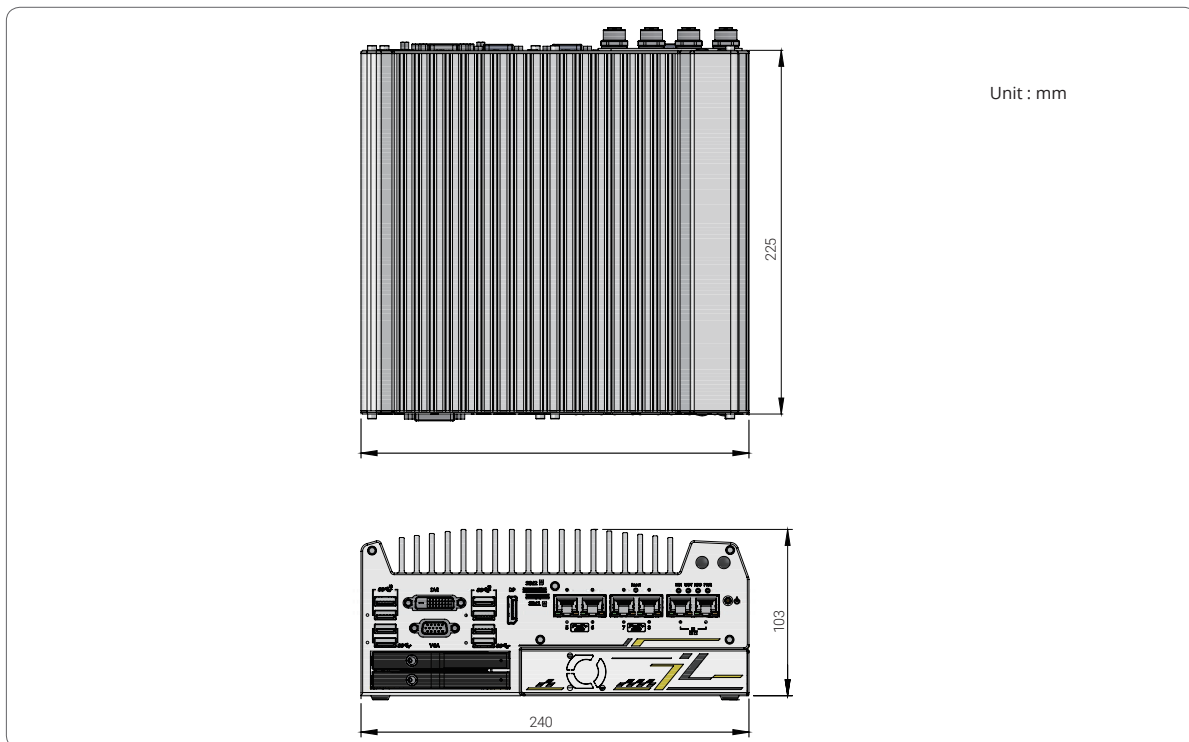


Nuvo-7200VTC Series

Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-7200VTC	Intel® 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® 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® 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-RJ45-500CM	M12 (8-pole-X-coded) to RJ45, CAT6, length : 500CM
Cbl-M12X8M-RJ45-1000CM	M12 (8-pole-X-coded) to RJ45, CAT6, length : 1000CM
PA-120W-OW	120W 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
---------------	----------------------------------

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660