

Nuvo-7200VTC Series

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



Key Features

- · Supports Intel® 9th/ 8th-Core™ i7/ i5/ i3 LGA1151 socket-type CPU
- · Patented Cassette for PCIe add-on card accommodation*
- · 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-PCle sockets
- · 8~35V wide-range DC input with built-in ignition power control
- E-Mark and EN 50155/EN 45545 certificate

Contact Neousys

Get Quote

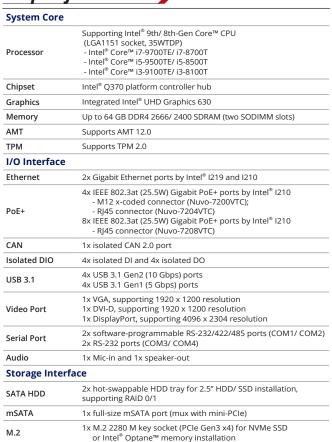
*R.O.C Patent No. M456527

Introduction

Nuvo-7200VTC is the latest rugged in-vehicle controller featuring purpose-built set and effortless connectivity, powered by Intel® 9th/8th-Gen Core™ 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-PCIe 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/ EN45545. The Nuvo-7200VTC is the perfect solution with extraordinary reliability for various in-vehicle application needs.

Specifications

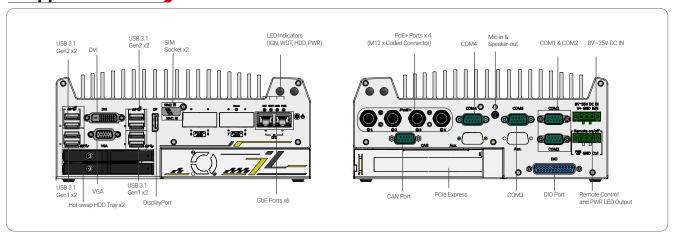


PCI Express	1x PCIe x16 slot@Gen3, 16-lanes PCIe signals in Cassette
Mini PCI-E	1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM sockets
M.2	2x M.2 2242 B key socket, one with dual front-accessible SIM sockets, supporting dual SIM mode with selected M.2 LTE module
Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35V DC input (IGN/ GND/ V+)
Remote Ctrl. & Status Output	1x 3-pin pluggable terminal block for remote control and PWR LED output
Mechanical	
Dimension	240 mm (W) x 225 mm (D) x 103mm (H)
Weight	3.7 kg
Mounting	Wall-mount with damping brackets (Standard) or DIN-rail mount (optional)
Environmental	
Operating Temperature	-40°C ~ 70°C **
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90%, non-condensing
Vibration	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)
Shock	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)
EMC	EN 50155/ EN 45545 (Nuvo-7200VTC), E-Mark (Nuvo-7208VTC) CE/FCC Class A, according to EN 55032 & EN 55024

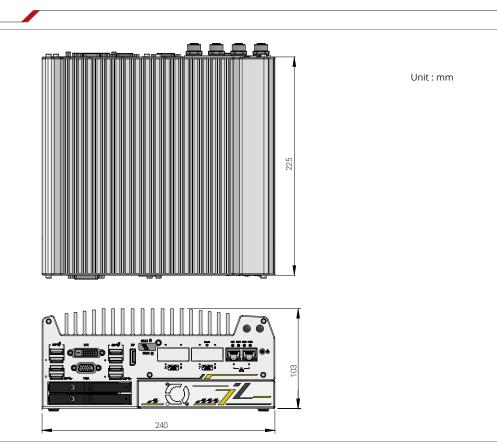
^{**} For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-7200VTC	Intel® 9th/8th-Gen Core™ in-vehicle controller with 4x M12 PoE+ ports, DIO, CAN bus and RAID, single-slot PCI Express Cassette
Nuvo-7204VTC	Intel® 9th/8th-Gen Core™ in-vehicle controller with 4x RJ45 PoE+ ports, DIO, CAN bus and RAID, single-slot PCI Express Cassette
Nuvo-7208VTC	Intel® 9th/8th-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°C to 70 °C.

Optional Cellular Module

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