

Nuvo-7250VTC Series

Intel® 8th/ 9th-Gen Core™ In-vehicle Controller with 4x or 8x PoE+ Ports, Supercapacitor-based Power Backup Module



Key Features

- · Supports Intel® 8th/ 9th-Gen Core™ i7/ i5/ i3 LGA1151 socket-type CPU
- · Patented supercapacitor-based uninterruptible power backup*
- · 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
- EN 50155 certificate

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*R.O.C Patent No. M456527/ I598820

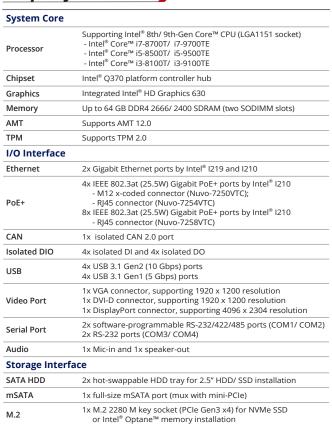
Introduction

Nuvo-7250VTC is a rugged in-vehicle controller that utilizes Neousys' innovative supercapacitor-based power backup solution. Powered by Intel® 8th/9th-Gen Core™ processors with up to 6-core/8-core and 64GB DDR4 memory, it offers over 50% performance increase over previous generations. Nuvo-7250VTC is equipped with supercapacitor technology to provide 2500 watt-second stored energy to sustain the system to safely shutdown during unforeseen power outages.

Nuvo-7250VTC offers a variety 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. Internal expansion wise, it has two M.2 and three mini-PCIe sockets for corresponding modules such as 3G/ 4G, WIFI, GPS, and CAN module. Additionally, Neousys provides an option of 4G cellular module certified to work with renowned US telecom company to minimize implementation time and cost.

To top it off, Nuvo-7250VTC 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 EN 50155. Coupled with supercapacitor power backup technology, the Nuvo-7250VTC offers data protection and is the perfect solution for various in-vehicle applications.

Specifications



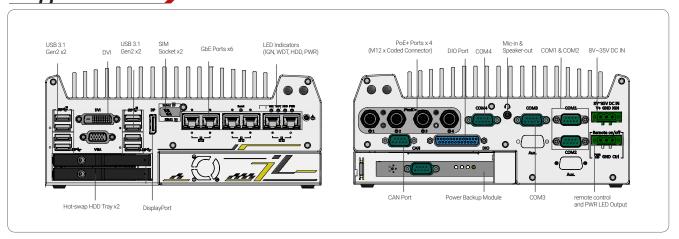
Expansion Bus	
Mini PCI-E	1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM sockets
M.2	2x M.2 2242 B key socket, one with dual front-accessible SIM sockets, supporting dual SIM mode with selected M.2 LTE 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
Power Backup	
Capacity	2500 watt-second
Mechanical	
Dimension	240 mm (W) x 225 mm (D) x 103mm (H)
Weight	4.1 kg
Mounting	Neousys' patented damping bracket (standard) or optional DIN-rail mounting
Environmental	
Operating Temperature	-40°C ~ 70°C **
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
EMC	EN 50155, CE/FCC Class A, according to EN 55022 & EN 55024

^{*} 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 before co

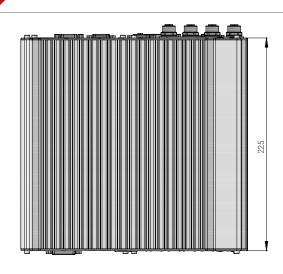
mgner operating temperature. ** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



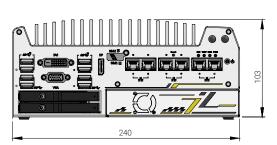
Appearance



Dimensions



Unit: mm



Ordering Information

Model No.	Product Description
Nuvo-7250VTC	Intel [®] 8th/ 9th-Gen Core™ in-vehicle controller with 4x M12 PoE+ ports, ultracapacitor-based power backup module
Nuvo-7254VTC	Intel [®] 8th/ 9th-Gen Core™ in-vehicle controller with 4x RJ45 PoE+ ports, ultracapacitor-based power backup module
Nuvo-7258VTC	Intel® 8th/ 9th-Gen Core™ in-vehicle controller with 8x RJ45 PoE+ ports, ultracapacitor-based power backup module

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: 100CM
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