



# **Nuvo-7100VTC Series**

Intel® 8th/ 9th-Gen Core™ i7/i5/i3 In-vehicle Controller with 4x or 8x PoE+ Ports, DIO, CAN bus and RAID



#### Key Features

- · Supports Intel® 8th/9th-Gen 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 SATA ports with one hot-swappable HDD tray, 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 certificate

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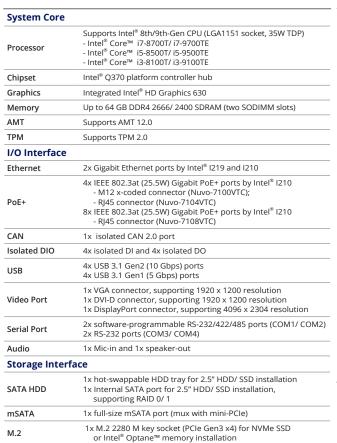
#### Introduction

Nuvo-7100VTC is a rugged in-vehicle controller featuring purpose-built set and effortless connectivity. Powered by Intel® 8th/ 9th-Gen Core™ processors with up to 6-core/ 8-core and 64GB DDR4 memory, it provides significant performance increases over previous generations.

Nuvo-7100VTC 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 day 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.

On top of all that, Nuvo-7100VTC also features 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-7100VTC is the perfect solution with extraordinary reliability for various in-vehicle applications.

### **Specifications**



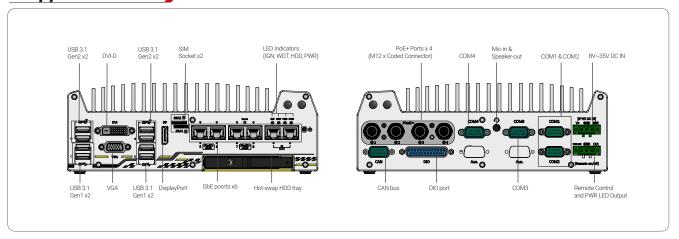
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Expansion Bus	
Mini PCI-E	1x full-size mini PCI Express socket with internal SIM socket (mux with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM sockets
M.2	2x M.2 2242 B key socket, one with dual front-accessible SIN sockets, 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 84 mm (H)
Weight	3.5 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 (Nuvo-7100VTC), E-Mark (Nuvo-7108VTC) CE/FCC Class A, according to EN 55022 & EN 55024

routing on the propose faithing at look mode, the highest operating temperature shall be limited to 50°C and ermal thortfling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to tain higher operating temperature.

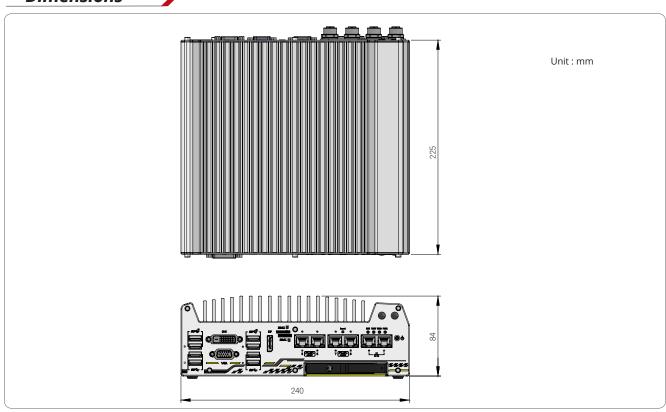
For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



#### **Appearance**



### **Dimensions**



## **Ordering Information**

Model No.	Product Description
Nuvo-7100VTC	Intel <sup>®</sup> 8th/ 9th-Gen Core™ in-vehicle controller with 4x M12 PoE+ Ports, DIO, CAN bus and RAID
Nuvo-7104VTC	Intel <sup>®</sup> 8th/ 9th-Gen Core™ in-vehicle controller with 4x RJ45 PoE+ Ports, DIO, CAN bus and RAID
Nuvo-7108VTC	Intel <sup>®</sup> 8th/ 9th-Gen Core™ in-vehicle controller with 8x RJ45 PoE+ Ports, DIO, CAN bus and RAID

## **Optional Accessories**

Cbl-M12X8M-RJ4	5-500CM	M12 (8-pole-X-coded) to RJ45, CAT6, length: 500CM
Cbl-M12X8M-RJ4	5-1000CM	M12 (8-pole-X-coded) to RJ45, CAT6, length: 1000CM
PA-120W-OW	120W AC/D	C 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