# **Nuvo-5100VTC Series**

Intel® 6th-Gen Skylake Core™ i7/i5/i3 In-Vehicle Controller with 4x or 8x PoE+ Ports, DIO, CAN Bus and RAID



#### Key Features

- · Supports Intel® 6th-Gen Core™ i7/i5/i3 LGA1151 socket-type CPU
- · 4x or 8x 802.3at Gigabit PoE+ ports via M12 or RJ45 connectors
- · On-board 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
- · 4x full-size mini-PCle sockets with SIM support
- · 8~35V wide-range DC input with built-in ignition power control
- · EN 50155 certificate

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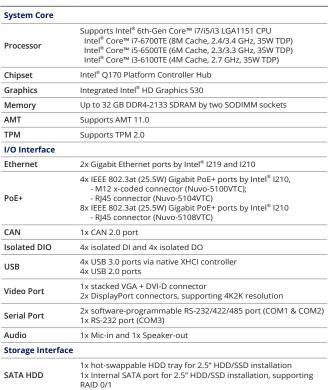
#### Introduction

Nuvo-5100VTC is a state-of-the-art in-vehicle controller in compliant with E-Mark and EN 50155 certificate. Featuring Intel® 6th-Gen Core™ CPU, it exhibits superb CPU and GPU performance for various in-vehicle applications.

Nuvo-5100VTC offers four or eight 802.3at PoE+ ports to supply 25W power to the connected device. They are implemented using RJ45 or M12 (x-coded connectors), which guarantee extremely rugged connectivities in shocking/vibrating environments. Two more Gigabit Ethernet ports by RJ-45 are available for data communication. You can also utilize four internal mini-PCle sockets with corresponding modules for 3G/4G/WIFI/GPS communication.

In addition, Nuvo-5100VTC integrates CAN bus for in-vehicle communication, and isolated DIO for sensor/actuator control. Combing ignition power control and dual-drive RAID storage, Nuvo-5100VTC is simply the one to satisfy all your application demands.

### **Specifications**



Storage Interface	e
mSATA	1x full-size mSATA port (mux with mini-PCle)
Expansion Bus	
Mini PCI-E	1x full-size mini-PCle socket with panel-accessible SIM socket 1x full-size mini-PCle socket with internal SIM socket (mux. with mSATA) 2x full-size mini-PCle sockets (USB signals only) with internal SIM sockets
Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
Mechanical	
Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
Weight	3.3 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, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Certification	EN 50155 / EN 50121-3-2 / EN 50121-2-1/ EN50121-2-2 / EN 61373 (Nuvo-5100VTC) CE/FCC Class A, according to EN 55022 & EN 55024

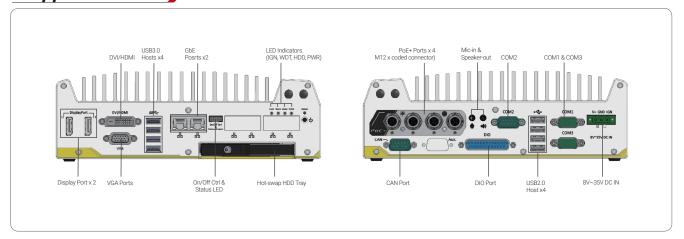
<sup>\*</sup>The CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact



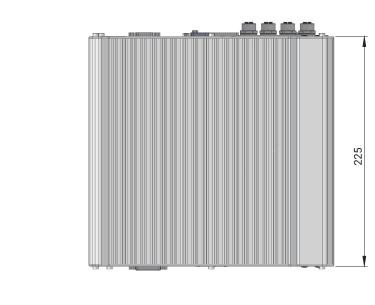
<sup>\*\*</sup> For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required

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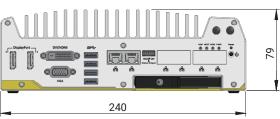
#### **Appearance**



#### **Dimensions**



Unit: mm



### **Ordering Information**

Model No.	Product Description
Nuvo-5100VTC	Intel® 6th-Gen Skylake Core™ i7/i5/i3 In-Vehicle Controller with 4x M12 PoE+ Ports, DIO, CAN Bus and RAID
Nuvo-5104VTC	Intel® 6th-Gen Skylake Core™ i7/i5/i3 In-Vehicle Controller with 4x RJ45 PoE+ Ports, DIO, CAN Bus and RAID
Nuvo-5108VTC	Intel® 6th-Gen Skylake Core™ i7/i5/i3 In-Vehicle Controller with 8x RJ45 PoE+ Ports, DIO, CAN Bus and RAID

## **Optional Accessories**

M12, x-coded to RJ-45 Ethernet cable, 5 m length

M12, x-coded to RJ-45 Ethernet cable, 10 m length

DIN-Rail mounting kit

120W AC/DC power adapter

