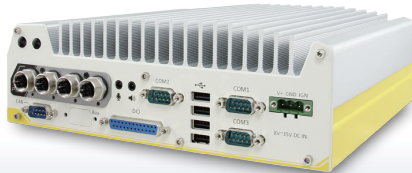


In-vehicle Computing

www.neosys-tech.com

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



CE FC

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-PCIe sockets with SIM support
- 8~35V wide-range DC input with built-in ignition power control
- EN 50155 certificate

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-PCIe 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

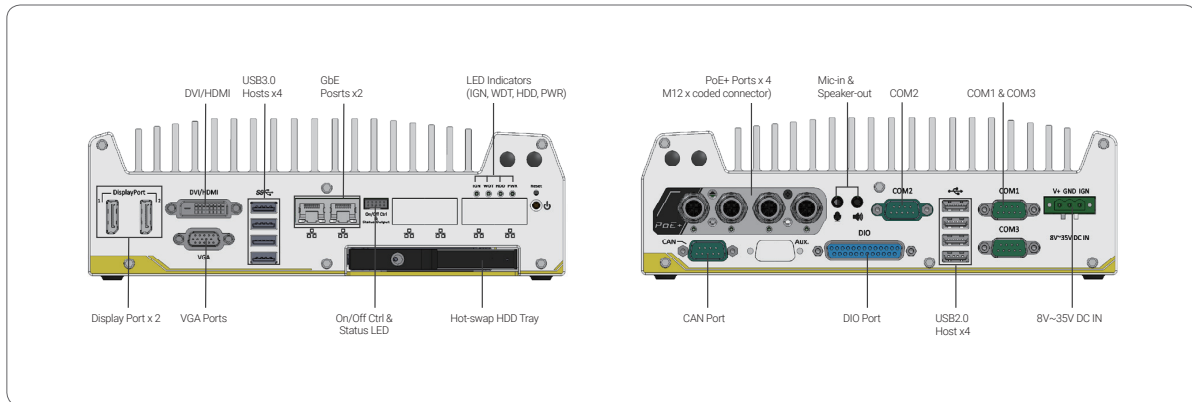
System Core		Storage Interface	
Processor	Supports Intel® 6th-Gen Core™ i7/i5/i3 LGA1151 CPU Intel® Core™ i7-6700TE (8M Cache, 2.4/3.4 GHz, 35W TDP) Intel® Core™ i5-6500TE (6M Cache, 2.3/3.3 GHz, 35W TDP) Intel® Core™ i3-6100TE (4M Cache, 2.7 GHz, 35W TDP)	mSATA	1x full-size mSATA port (mux with mini-PCIe)
Chipset	Intel® Q170 Platform Controller Hub	Expansion Bus	1x full-size mini-PCIe socket with panel-accessible SIM socket 1x full-size mini-PCIe 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 530	Power Supply	
Memory	Up to 32 GB DDR4-2133 SDRAM by two SODIMM sockets	DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
AMT	Supports AMT 11.0	Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
TPM	Supports TPM 2.0	Mechanical	
I/O Interface		Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
Ethernet	2x Gigabit Ethernet ports by Intel® I219 and I210	Weight	3.3 kg
PoE+	4x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel® I210, - M12 x-coded connector (Nuvo-5100VTC); - RJ45 connector (Nuvo-5104VTC) 8x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel® I210 - RJ45 connector (Nuvo-5108VTC)	Mounting	Neosys' patented damping bracket (standard) or optional DIN-Rail mounting
CAN	1x CAN 2.0 port	Environmental	
Isolated DIO	4x isolated DI and 4x isolated DO	Operating Temperature	-40°C ~ 70°C */**
USB	4x USB 3.0 ports via native XHCI controller 4x USB 2.0 ports	Storage Temperature	-40°C ~ 85°C
Video Port	1x stacked VGA + DVI-D connector 2x DisplayPort connectors, supporting 4K2K resolution	Humidity	10%~90% , non-condensing
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM2) 1x RS-232 port (COM3)	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Audio	1x Mic-in and 1x Speaker-out	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Storage Interface		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
SATA HDD	1x hot-swappable HDD tray for 2.5" HDD/SSD installation 1x Internal SATA port for 2.5" HDD/SSD installation, supporting RAID 0/1		

*The CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact Neosys Technology
** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

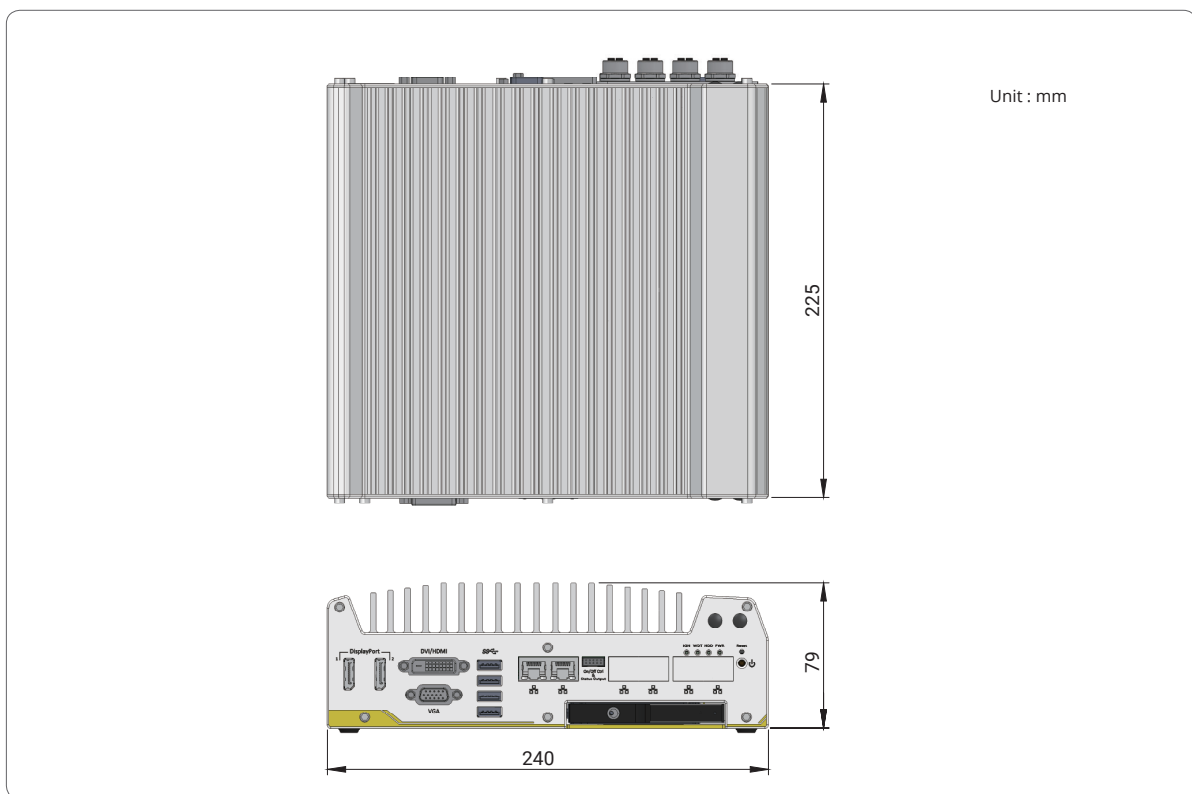
Nuvo-5100VTC Series

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Appearance



Dimensions



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

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