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Nuvo-5100VTC Series

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



- · 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
- $\cdot\,$ 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 & E13 No. 10R-0514321

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.

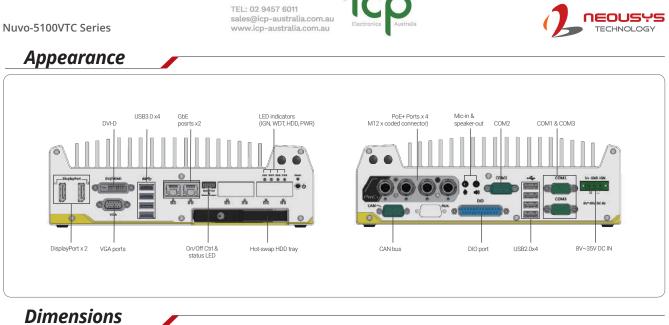
Nuvo-5100VTC offers four or eight 802.3at PoE+ ports to supply 25W power to the connected device. They are implemented using RJ45 or M12 (x-coded connectors), which guarantee extremely rugged connection in shock/ vibration environments. Two more Gigabit Ethernet ports by RI45 are available for data communication. 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 the perfect solution for all your in-vehicle application needs.

Specifications

System Core		Storage Interf	ace
	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 [™] i5-6100TE (4M Cache, 2.7 GHz, 35W TDP)	mSATA	1x full-size mSATA port (mux with mini-PCle)
Processor		Expansion Bus	
Chipset	Intel [®] Q170 platform controller hub	Mini PCI-E	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		
Memory	Up to 32 GB DDR4-2133 SDRAM (two SO-DIMM slots)		
AMT	Supports AMT 11.0	Power Supply	
ТРМ	Supports TPM 2.0	DC Input	1x 3-pin pluggable terminal block for 8~35V DC input
I/O Interface		Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/ off control and status LED output
Ethernet	2x Gigabit Ethernet ports by Intel [®] I219 and I210	Mechanical	
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)	Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
		Weight	3.3 kg
		Mounting	Neousys' patented damping bracket (standard) or
CAN	1x CAN 2.0 port		optional DIN-rail mounting
Isolated DIO	4x isolated DI and 4x isolated DO	Environmenta	
USB	4x USB3.0 ports via native xHCl controller 4x USB2.0 ports	Operating Temperature	-40°C ~ 70°C */**
Video Port	1x stacked VGA + DVI-D connector 2x DisplayPort connectors, supporting 4K2K resolution	Storage Temperature	-40°C ~ 85°C
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM3)	Humidity	10%~90% , non-condensing
	1x RS-232 port (COM2)	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Audio	1x Mic-in and 1x speaker-out		
Storage Inter		Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
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	Certification	EN 50155 (Nuvo-5100VTC), E-Mark (Nuvo-5108VTC) CE/ FCC Class A, according to EN 55022, EN 55024 & EN 5503
		*The CPU loading is a	pplied using Passmark [®] BurnInTest 8.0. For detail testing criteria, please contact

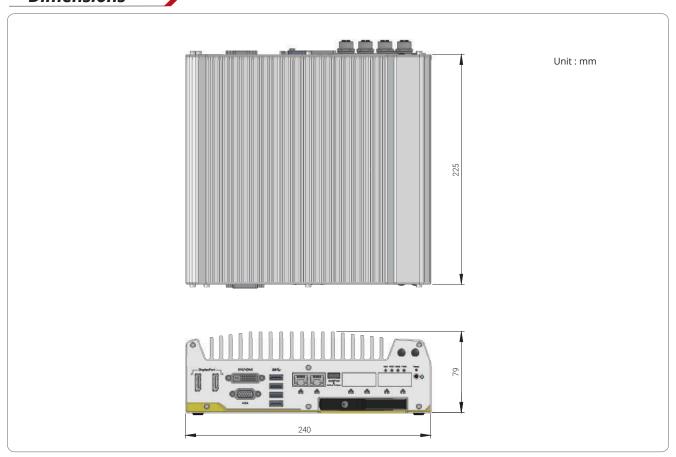
Technology ** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required. Nuvo-5100VTC Series



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NEOUSYS

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Ordering Information

Model No.	Product Description
Nuvo-5100VTC	Intel [®] 6th-Gen Core™ in-vehicle controller with 4x M12 PoE+ Ports, DIO, CAN bus and RAID
Nuvo-5104VTC	Intel [®] 6th-Gen Core™ in-vehicle controller with 4x RJ45 PoE+ Ports, DIO, CAN bus and RAID
Nuvo-5108VTC	Intel [®] 6th-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	
CbI-M12X8M-RJ4	5-1000CM M12 (8-pole-X-coded) to RJ45, CAT6, length : 1000CM	
DINRAIL-O	DIN-rail mounting assembly for Nuvo-5100VTC series	
PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.	