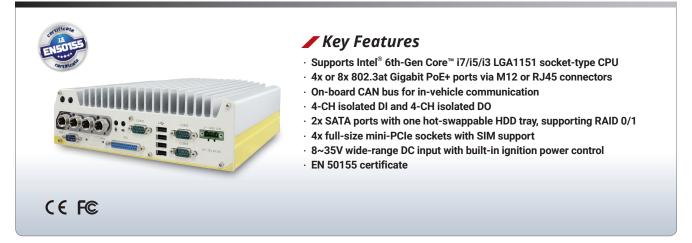
Nuvo-5100VTC Series

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



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.

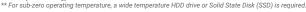
In addition, Nuvo-5100VTC integrates CAN bus for in-vehicle communication, and isolated DIO for sensor/actuator control. Combing ignition power control and dual-drive RAID storage, Nuvo-5100VTC is simply the one to satisfy all your application demands.

Specifications

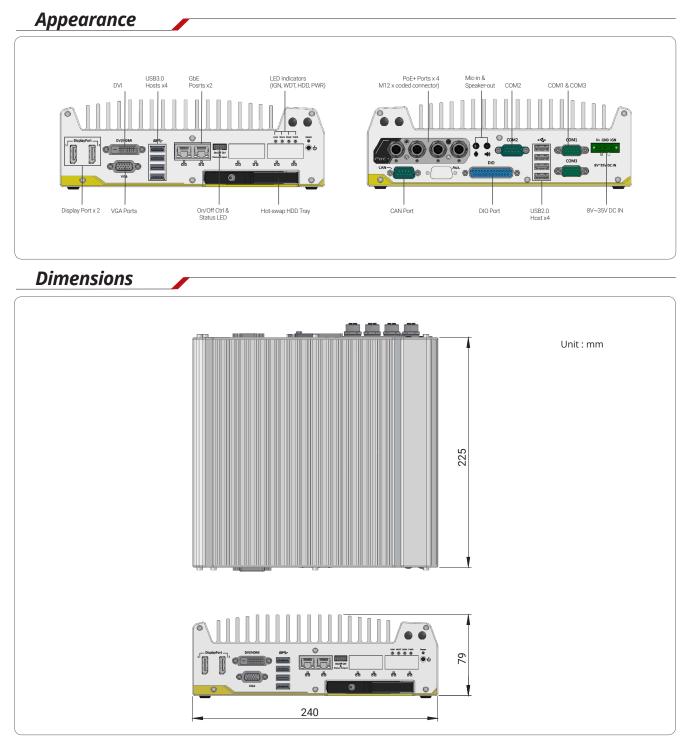
System Core		Storage Interfac	e
Processor	Supports Intel [®] 6th-Gen Core [™] i7/i5/i3 LGA1151 CPU Intel [®] Core [™] i7-6700TE (8M Cache, 2.4/3.4 GHz, 35W TDP) Intel [®] Core [™] i5-6500TE (6M Cache, 2.3/3.3 GHz, 35W TDP) Intel [®] Core [™] i3-6100TE (4M Cache, 2.7 GHz, 35W TDP)	mSATA	1x full-size mSATA port (mux with mini-PCIe)
		Expansion Bus	
Chipset	Intel [®] Q170 Platform Controller Hub	[–] Mini PCI-E 1x full-size mini-PCIe so (mux. with mSATA)	1x full-size mini-PCIe socket with panel-accessible SIM socket 1x full-size mini-PCIe socket with internal SIM socket
Graphics	Integrated Intel [®] HD Graphics 530		(mux. with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM
Memory	Up to 32 GB DDR4-2133 SDRAM by two SODIMM sockets		
AMT	Supports AMT 11.0	Power Supply	
ТРМ	Supports TPM 2.0	DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
I/O Interface		Remote Ctrl. &	1x 10-pin (2x5) wafer connector for
Ethernet	2x Gigabit Ethernet ports by Intel [®] I219 and I210	Status Output	remote on/off control and status LED output
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 DIA State Construction (Numerical Construction)	Mechanical Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
		Weight	3.3 kg
CAN	- RJ45 connector (Nuvo-5108VTC) 1x CAN 2.0 port	 Mounting 	Neousys' patented damping bracket (standard) or optional DIN-Rail mounting
Isolated DIO	4x isolated DI and 4x isolated DO	Environmental	
	4x USB 3.0 ports via native XHCI controller	Operating	-40°C ~ 70°C */**
USB	4x USB 2.0 ports	Temperature	
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) 1x RS-232 port (COM2)	Humidity	10%~90% , non-condensing
		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 Interfa		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	EN50155 / EN50121-3-2 / EN50121-2-1/ EN50121-2-2 / EN61373 (Nuvo-5100VTC) CE/FCC Class A, according to EN55022, EN55024 & EN55032

*The CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact

Neousys Technology







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

