Nuvo-5100VTC Series

Intel® 6th-Gen Skylake Core™ i7/i5/i3 In-Vehicle Controller with 4x M12 PoE+ Ports, DIO, CAN Bus and RAID



Features

- · Supports Intel® 6th-Gen Core™ i7/i5/i3 LGA1151 socket-type CPU
- · 4x 802.3at Gigabit PoE+ ports via M12 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
- E-Mark and 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 802.3at PoE+ ports to supply 25W power to the connected device. They are implemented using 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		Expansion Bus	
Processor	Supports 6th-Gen Intel® 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)	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
Chipset	Intel® Q170 Platform Controller Hub	Power Supply	
Graphics	Integrated Intel® HD Graphics 530	DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
Memory	Up to 32 GB DDR4-2133 SDRAM by two SODIMM sockets	Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
AMT	Supports AMT 11.0		
ГРМ	Supports TPM 2.0	Mechanical	
/O Interface		Dimension	240 mm (W) x 225 mm (D) x 79 mm (H)
thernet	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	Mounting	Neousys' patented damping bracket (standard) or optional DIN-Rail mounting
CAN	1x CAN 2.0 port	Environmental	
solated DIO	4x isolated DI and 4x isolated DO	Operating	-25°C ~ 70°C */**
JSB	4x USB 3.0 ports via native XHCl controller 4x USB 2.0 ports	Temperature Storage	-40°C ~ 85°C
/ideo Port	1x stacked VGA + DVI-D connector	Temperature Humidity	-40 C 63 C
	2x DisplayPort connectors, supporting 4K2K resolution		10%~90%, non-condensing
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM2) 1x RS-232 port (COM3)		Operating, 5 Grms, 5-500 Hz, 3 Axes
Audio	1x mic-in and 1x speaker-out	Vibration	(w/ SSD, according to IEC60068-2-64)
Storage Interfa	ace		Operating, 50 Grms, Half-sine 11 ms Duration
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	Shock	(w/ SSD, according to IEC60068-2-27)
		EMC	CE/FCC Class A, according to EN 55022 & EN 55024
		* The CPU loading is applied using Passmark® BurnInTest 8.0. For detail testing criteria,	

Order Information

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Accessories

- M12, x-coded to RJ-45 Ethernet cable, 5 m length
- M12, x-coded to RJ-45 Ethernet cable, 10 m length
- Option of DIN-Rail mounting kit
- 120W AC/DC power adapter

