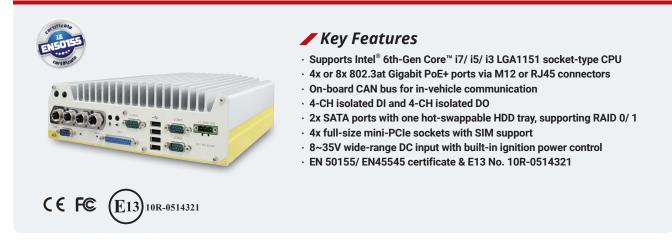
Nuvo-5100VTC Series

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



Introduction

Nuvo-5100VTC is an 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 RJ45 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

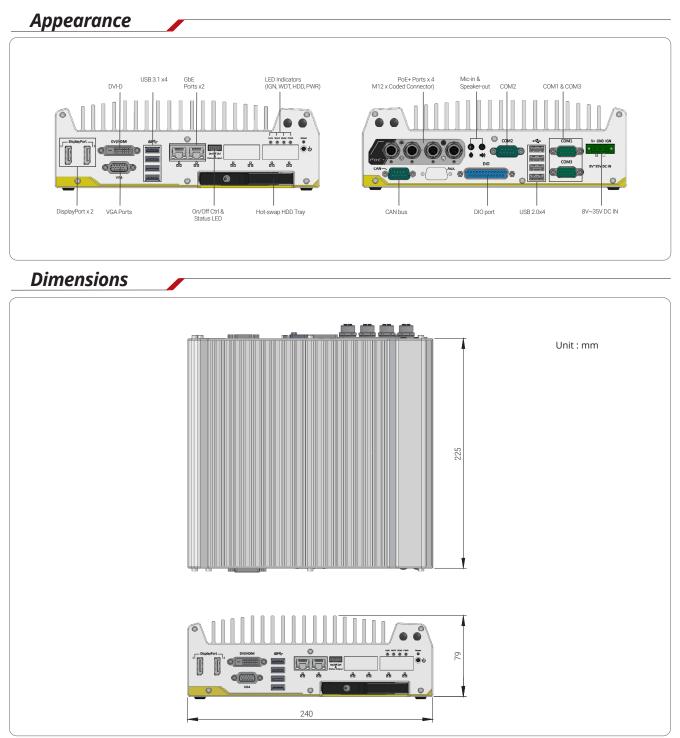
		Storage Interf	ace
Processor	Supports Intel [®] 6th-Gen Core [™] i7/ i5/ i3 LGA1151 CPU - Intel [®] Core [™] i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) - Intel [®] Core [™] i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP) - Intel [®] Core [™] i5-6100TE (4M Cache, 2.7 GHz, 35W TDP)	mSATA	1x full-size mSATA port (mux with mini-PCle)
		Expansion Bus	
Chipset	Intel [®] Q170 platform controller hub	1x full-size mini-PCle socket with panel-accessible SIM sock Mini PCI-E 1x full-size mini-PCle socket with internal SIM socket Mini PCI-E (mux. with mSATA) 2x full-size mini-PCle sockets (USB signals only) with internal SIM sockets	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		
Memory	Up to 32 GB DDR4-2133 SDRAM (two SODIMM 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	Wall-mount with damping brackets (Standard) or DIN-rail mount (optional)
CAN	1x CAN 2.0 port		
lsolated DIO	4x isolated DI and 4x isolated DO	Environmenta	1
USB 3.1	4x USB 3.1 ports via native xHCl controller	Operating Temperature	-40°C ~ 70°C */**
USB 2.0	4x USB 2.0 ports	•	
Video Port	1x stacked VGA + DVI-D	Temperature	-40°C ~ 85°C
	2x DisplayPorts, supporting 4K2K resolution	Environmental Operating Temperature Storage Temperature Humidity	10%~90% , non-condensing
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM3) 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		Operating, 50 Grms, Half-sine 11 ms Duration
Storage Inter	face	Shock	(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/ EN45545 E-Mark (Nuvo-5108VTC) CE/ FCC Class A, according to EN 55022, EN 55024 & EN 5503

* For i7-6700 running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain Hortiling may occur when sustained full-loading applied. Users can compute a Specific provided through the provided of the



Website: omtec.de Email: info@omtec.de TEL: +49 (0) 4451 96 113 100





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	15-500CM M12 (8-pole-X-coded) to RJ45, CAT6, length : 500CM	
Cbl-M12X8M-RJ4	15-1000CM M12 (8-pole-X-coded) to RJ45, CAT6, length : 1000CM	
DINRAIL-O	DIN-rail mount 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.	



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