

In-vehicle Computing

Nuvo-3100VTC Series

Intel® 3rd-Gen Core™ i7/i5 Fanless in-Vehicle Controller with 4x 802.3at PoE+ Ports and Dual-Drives RAID



Features

- 212 mm x 165 mm x 62 mm very compact size
- Intel® 3rd-Gen i7/i5 PGA-type processor
- 4x IEEE 802.3at (25.5W) Gigabit PoE+ ports
- Dual 2.5" SATA ports with one hot-swappable HDD tray
- Patented damping bracket* for in-vehicle installation
- 8 ~ 35V wide-range DC input and built-in ignition power control
- 3x mini-PCIe/mSATA slots for 3G/WIFI/GPS capability
- E-Mark and EN 50155/EN 50121-3-2 certificate

Introduction

Nuvo-3100VTC is a fanless controller with E-Mark and EN 50155/EN 50121-3-2 certificate for in-vehicle usage. It supports 3rd-Gen i7 quad-core CPU to provide extraordinary performance for emerging high-end requirements. It also integrates four IEEE 802.3at PoE+ ports to facilitate Ethernet connectivity and power IP cameras for surveillance applications.

Nuvo-3100VTC takes into account all demands of in-vehicle applications. It has very compact footprint to fit into restricted space. Its 8~35V wide-range DC input and enhanced surge protection make Nuvo-3100VTC highly robust when car power applied. Nuvo-3100VTC further incorporates built-in RAID supporting data striping (RAID 0) and data mirroring (RAID 1) for two 2.5" HDDs. You can also take advantage of the hot-swappable HDD tray for easy HDD replacement. For in-vehicle installation, our patented mounting bracket can absorb shock/vibration and extend overall system reliability.

Combining superior performance, PoE+ and comprehensive design, Nuvo-3100VTC presents more possibilities for innovative in-vehicle applications!

Product Highlights

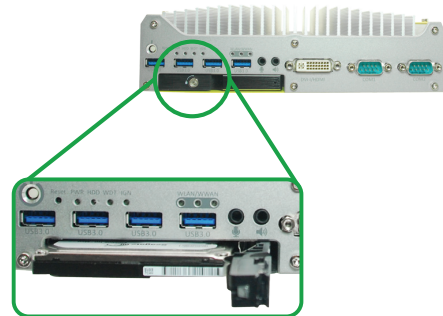
4x 802.3at PoE+ Ports

Power Over Ethernet, or PoE, is a technology that passes electrical power along with data over a single CAT5/6 cable. Compliant with IEEE 802.3at PoE+ standard, Nuvo-3100VTC can supply 25.5W to each of its four ports. For in-vehicle surveillance applications, PoE+ significantly reduces the complexity of camera installation as only one CAT5/6 cable is enough to connect and power the camera.



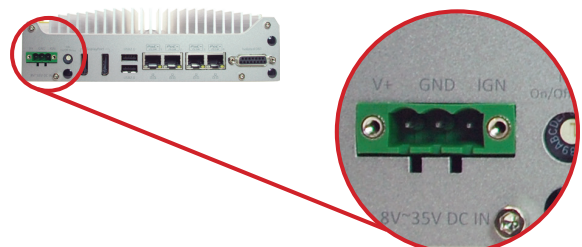
RAID with Hot-Swappable HDD Tray

Nuvo-3100VTC has built-in hardware RAID to enhance reliability and efficiency of disk access. It maintains two 2.5" SATA drives and supports RAID 0 (higher throughput) and RAID 1 (data redundancy). In addition, Nuvo-3100VTC hosts a hot-swappable HDD tray to accommodate one of SATA drives for storing portable information.



Comprehensive Power Design for In-Vehicle Applications

Aiming at in-vehicle usage, Nuvo-3100VTC has comprehensive power circuitry design. It accepts 8~35VDC input range with enhanced surge protection to work reliably with battery power on the car (12V) or bus/truck (24V). Ignition power control is implemented to respond ACC signal according to configurable power on/off delay.



* R.O.C Patent No.M491752

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