Nuvo-2510VTC Series
Intel® Atom™ Bay Trail In-Vehicle Fanless Computer with 2x IEEE 802.3at PoE+ Ports

Key Features

- Intel® Atom™ Bay Trail E3845 quad-core processor
- Dual mPCIe and USIM sockets for 3G, LTE, WLAN, BT or GPS modules
- Dual storage with 1x mSATA and 1x SATA
- Intelligent ignition power control
- 1x CAN bus port with compliance to CAN 2.0A and CAN 2.0B
- 8 to 35VDC wide-range DC input
- Operating temperature from -25° to 70°C
- Patented damping bracket* increases stability with HDD
- E13 No. 10R-0513905

Introduction

Nuvo-2510VTC is an in-vehicle fanless computer with Intel® Atom™ E3845 quad-core processor. Equipped with 2 IEEE 802.3at Gigabit Ethernet ports, Nuvo-2510VTC is capable of directly driving 25W GigE and PoE IP cameras with a single standard CAT-5e. Along with intelligent ignition power control and built-in CAN bus, Nuvo-2510VTC is ideal for light-weight mobile applications, such as mobile NVR and mobile APNR. Designed for in-vehicle applications, Nuvo-2510VTC supports wide-range DC input, and thus can be directly powered by 12VDC or 24VDC vehicle battery. It features intelligent ignition power control with selectable on and off delay and battery voltage monitoring. Nuvo-2510VTC also supports one built-in CAN bus port with compliance to CAN 2.0A and CAN 2.0B. The CAN bus is the foundation of many different kinds of vehicles protocols. Nuvo-2510VTC provides 2 PoE+ Gigabit Ethernet ports and 1 USB3.0 port for industry cameras and IP cameras. Besides, 4 serial ports and 3 USB2.0 ports are available. For mobile applications which require data transmission, Nuvo-2510VTC is possible to install two 3G/4G modules with USIMs in its 2 mini PCI Express (mPCIe) sockets. Nuvo-2510VTC is ideal for your versatile in-vehicle applications.

Specifications

System Core

- Processor: Intel® Atom™ Bay Trail E3845 quad-core processor (1.91 GHz, 2M cache)
- Memory: 1x 204-pin SO-DIMM socket, up to 8GB DDR3L 1333MHz SDRAM

Front Panel I/O Interface

- PoE Port: 2x IEEE 802.3at (25.5W) Gigabit Ethernet ports by Intel® I210
- Video Port: Video Port
- Serial Port: 2x software-programmable RS-232/422/485 (COM1 & COM2)
- USB: 1x USB 3.0 port and 3x USB 2.0 ports

Back Panel I/O Interface

- Video Port: 1x DVI-I connector with DVI-D output, supporting 2560 x 1600 resolution
- Audio: 1x Mic-in and 1x Speaker-out
- Series Port: 2x RS-232 (COM3 & COM4)
- CAN Bus: 1x DB-9 connector for CAN Bus communications

Storage Interface

- SATA HDD: 1x Internal SATA port for 2.5" HDD/SSD installation
- mSATA: 1x internal half-sized mSATA (SATA + USB)

Expansion Bus

- Mini PCI-E: 1x full-sized mini PCI Express socket with USIM socket (PCle + USB)
- 1x full-sized mini PCI Express socket with external USIM socket (USB)

Power Supply

- DC Input: 1x 3-pin pluggable terminal block for ignition signal and 8~35VDC input

Mechanical

- Dimension: 205 mm (W) x 145 mm (D) x 44 mm (H)
- Weight: 1.9 kg (incl. CPU, memory and HDD)
- Mounting: Patented shock-absorbing wall-mounting (standard) or DIN-Rail mounting (optional)

Environmental

- Operating Temperature: -25°C – 70°C with SSD, 100% CPU loading **
- Storage Temperature: -10°C – 50°C with HDD, 100% CPU loading **
- Storage Temperature: -40°C – 85°C
- Humidity: 10%~90%, non-condensing
- Vibration: Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
- Shock: Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
- Certification: E-Mark for vehicle applications

*The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0. For detail testing criteria, please contact Neousys Technology.
** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.
**Nuvo-2510VTC Series**

**Appearance**

![Image of Nuvo-2510VTC Series]

**Dimensions**

![Image of Nuvo-2510VTC Dimensions]

**Ordering Information**

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**Optional Accessories**

- DIN-Rail mounting kit
- 60W AC/DC power adapter with 12V, 5A DC output

All specifications and photos are subject to change without notice.