Nuvo-2510VTC Series

Intel® Atom™ Bay Trail In-vehicle Fanless Computer with 2x IEEE 802.3at PoE+ Ports

CE FC E13 10R-0513905

Key Features

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

**R.O.C Patent No. M491752*

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 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 can be 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)
Graphics	Integrated Intel® HD Graphics
Memory	Up to 8GB DDR3L 1333MHz SDRAM (single SO-DIMM slot)
Front Panel I/O Interface	
PoE Port	2x IEEE 802.3at (25.5W) Gigabit Ethernet ports by Intel® I210
Video Port	1x DB-15 connector for analog RGB, supporting 2560 x 1600 resolution
Serial Port	2x software-programmable RS-232/ 422/ 485 (COM1 & COM2)
USB	1x USB3.0 port and 3x USB2.0 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 (PCIe + 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 8~35V DC 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 */** -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 CE/ FCC Class A, according to EN 55022 & EN 55024

** 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.*

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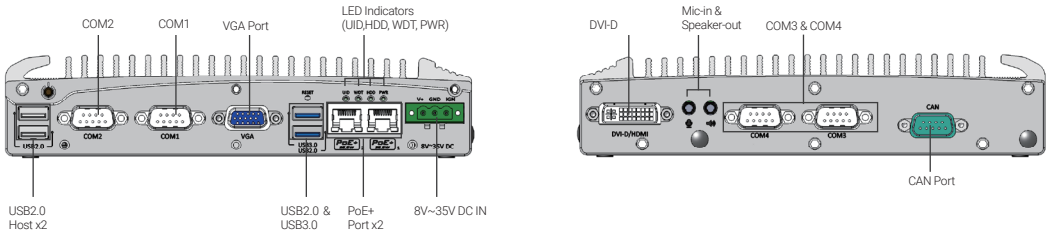
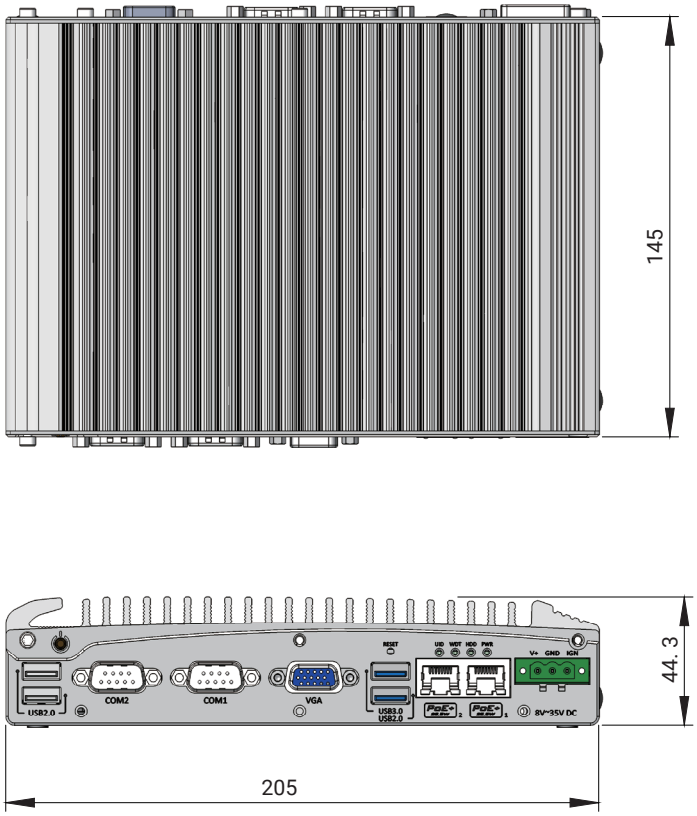
Appearance



Dimensions

Unit : mm



Ordering Information

Model No.	Product Description
Nuvo-2510VTC	Intel® Atom™ E3845 in-vehicle fanless computer with 2x IEEE 802.3at PoE+ ports

Optional Accessories

DINRAIL-25	DIN-rail mounting assembly for Nuvo-2510VTC series
PA-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block, operating temperature : -30 to 60 °C.

All specifications and photos are subject to change without prior notice