

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 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

*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 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.

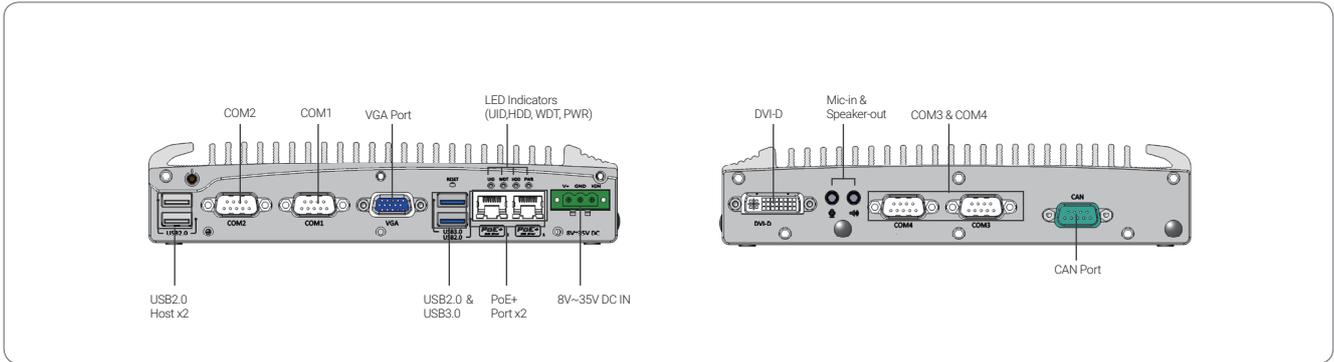
Designed for in-vehicle applications, Nuvo-2510VTC supports wide-range DC input, and thus can be directly powered by 12VDC or 24VDC vehicle battery. It features intelligent ignition power control with selectable on and off delay and battery voltage monitoring. Nuvo-2510VTC also supports one built-in 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.

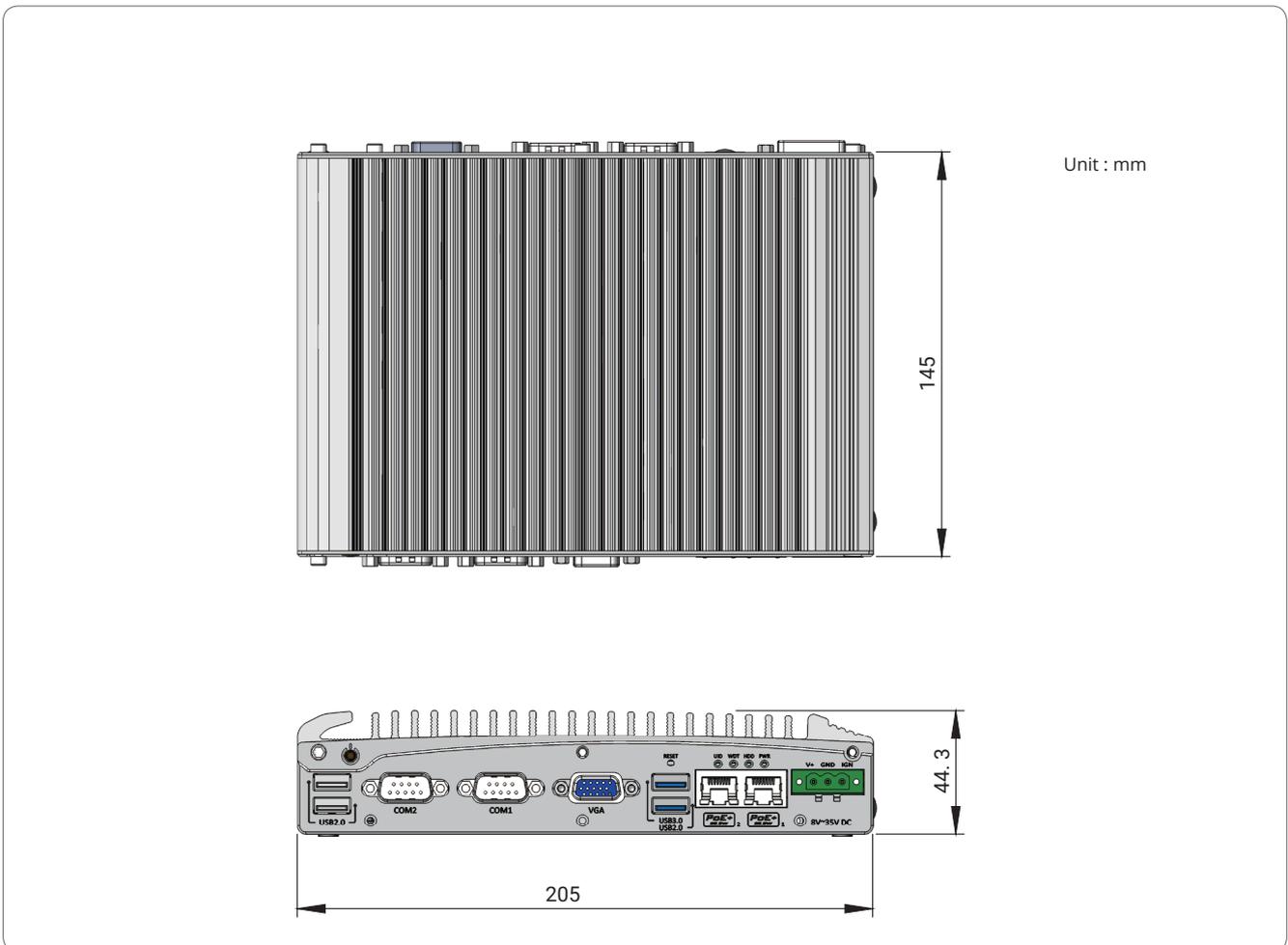
Specifications

System Core		Expansion Bus	
Processor	Intel® Atom™ Bay Trail E3845 quad-core processor (1.91 GHz, 2M cache)	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)
Graphics	Integrated Intel® HD Graphics	Power Supply	DC Input
Memory	1x 204-pin SO-DIMM socket, up to 8GB DDR3L 1333MHz SDRAM	Mechanical	1x 3-pin pluggable terminal block for ignition signal and 8-35VDC input
Front Panel I/O Interface		Dimension	205 mm (W) x 145 mm (D) x 44 mm (H)
PoE Port	2x IEEE 802.3at (25.5W) Gigabit Ethernet ports by Intel® I210	Weight	1.9 kg (incl. CPU, memory and HDD)
Video Port	Video Port	Mounting	Patented shock-absorbing wall-mounting (standard) or DIN-Rail mounting (optional)
Serial Port	2x software-programmable RS-232/422/485 (COM1 & COM2)	Environmental	
USB	1x USB 3.0 port and 3x USB 2.0 ports	Operating Temperature	-25°C ~ 70°C with SSD, 100% CPU loading */** -10°C ~ 50°C with HDD, 100% CPU loading */**
Back Panel I/O Interface		Storage Temperature	-40°C ~ 85°C
Video Port	1x DVI-I connector with DVI-D output, supporting 2560 x 1600 resolution	Humidity	10%~90%, non-condensing
Audio	1x Mic-in and 1x Speaker-out	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes(w/ SSD, according to IEC60068-2-64)
Series Port	2x RS-232 (COM3 & COM4)	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
CAN Bus	1x DB-9 connector for CAN Bus communications	Certification	E-Mark for vehicle applications CE/FCC Class A, according to EN 55022 & EN 55024
Storage Interface		<p><small>*The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0. For detail testing criteria, please contact Neousys Technology</small></p> <p><small>** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.</small></p>	
SATA HDD	1x Internal SATA port for 2.5" HDD/SSD installation		
mSATA	1x internal half-sized mSATA (SATA + USB)		

Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-2510VTC	Intel® Atom™ Bay Trail E3845 In-Vehicle Fanless Computer with 2x IEEE 802.3at PoE+ Ports

Optional Accessories

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