

In-vehicle Computing



Nuvo-2610VTC Series

Intel® Elkhart Lake Atom® x6425E In-Vehicle Computer with 4x M12 PoE+ ports and 15mm 2.5" HDD/SSD support



✓ Key Features



- · Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/ 3.0GHz 12W processor
- · Rugged -40°C to 70°C fanless operation, compliant with EN 50155 Class OT4
- · 4x PoE+ GbE ports via M12 x-coded connectors
- · 1x front-accessible 2.5" 15mm HDD tray and 1x M.2 2280 SATA SSD
- · 1x M.2 3042/3052 B Key for 4G/5G mobile broadband
- · 2x full-size mini-PCle sockets for WIFI/CAN/GNSS modules
- · 8-35V wide-range DC input with built-in ignition power control
- · EN 50155 and EN 45545 certified

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Introduction

The Nuvo-2610VTC series is a rugged Intel® Atom®-based in-vehicle computer that incorporates four M12 Gigabit PoE+ connectors and one front-accessible 2.5" HDD tray, supporting up to 15mm height HDD/SSD. It is designed to fulfill multi-purpose applications such as on-road, off-highway, or railway applications from mobile gateways, data loggers, to network video recorders (NVR).

Powered by Intel® Elkhart Lake Atom® x6425E quad-core CPU, the Nuvo-2610VTC series delivers 1.8x the CPU performance when compared with the previous generation. To provide robust Ethernet connectivity, the Nuvo-2610VTC series offers four Gigabit PoE+ ports via M12 x-coded connectors and two USB 3.1 ports with the screw-lock mechanism. In addition to the internal M.2 2280 SATA SSD for system storage, Nuvo-2610VTC also has one front-accessible 2.5" HDD tray accommodating a 2.5" SATA HDD/SSD with up to 15mm height and 5TB capacity. For internal expansion, it provides two mini-PCIe sockets for WiFi, GNSS, and CAN modules plus one M.2 3042/3052 B Key socket for 4G/5G mobile broadband module.

To meet versatile in-vehicle deployment conditions, the Nuvo-2610VTC series comes in three variants. In addition to Nuvo-2610VTC, the Nuvo-2611VTC is equipped with an embedded SuperCAP UPS to withstand power interruptions or voltage fluctuations on the train and can sustain the system for a proper shutdown when the power is cut-off. The Nuvo-2612VTC has a Cassette module for an additional Gen3 x2 PCIe slot that can accommodate an AI accelerator module with a tailor-made thermal solution. With the AI accelerator, it becomes a fanless GPU computer for intelligent video analytics or a data logger with perception capability.

By integrating an Intel Atom® quad-core x6425E, -40°C to 70°C fanless operations, wide-range DC input with ignition control, and 4G LTE / 5G NR mobile broadband connectivity, the Nuvo-2610VTC series is an ideal rugged, multi-purpose, in-vehicle computer for aftermarket on-road in-vehicle applications. With rugged M12 PoE+ connectivity and built-in SuperCAP UPS, the Nuvo-2610VTC series can withstand harsh and unstable electrical environments for off-highway applications such as trucks, cargo vehicles, and rolling stock.

Specifications

System Core		
Processor	Intel [®] Elkhart Lake Atom [®] x6425E quad-core 2.0GHz/3.0GHz 12W processor	
Graphics	Integrated Intel® UHD Graphics	
Memory	Up to 32 GB DDR4-3200 SDRAM by one SODIMM socket	
Panel I/O Interface		
PoE	4x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel® I210 via M12 x-coded connectors	
Video Port	VGA and DVI dual display outputs via DVI-I connector	
USB 3.1	1x USB 3.1 gen1 ports with screw-lock	
USB 2.0	2x USB 2.0 port with screw-lock	
Serial Port	1x isolated RS-485 port with 15 kV ESD protection (COM1) 3x 3-wire RS-232 ports (COM2/3/4) or 1x RS-422/485 (COM2)	
Audio	1x 3.5 mm jack for mic-in and speaker-out	
Isolated DIO	4-CH isolated DI and 4-CH isolated DO	
Expansion Bus		
PCI Express	1x PCIe x4 slot @Gen3, 2-lane PCIe signal in Cassette (Nuvo-2612VTC only)	
Mini-PCle	1x full-size mini PCI Express socket with PCIe and USB 2.0 signal 1x full-size mini PCI Express socket with USB 2.0 signal	
M.2 B key	1x M.2 3042/3052 B key (USB 3.1 + USB 2.0) for 4G/5G module with dual internal micro SIM socket	
Storage Interfa	ce	
M.2 SATA	1x M.2 2280 M key (SATA interface only) socket for SATA SSD installation	
SATA HDD	1x front-accessible HDD tray for 2.5" HDD/ SSD installation (up to 15mm height)	

Power Supply		
DC Input	1x 3-pin pluggable terminal block for 8V to 35V DC input with built-in ignition power control (IGN/GND/V+)	
Remote Ctrl. & LED Output	1x 3-pin pluggable terminal block for remote control and PWR LED output	
Power Backup		
Capacity	2500 watt-second (Nuvo-2611VTC only)	
Mechanical		
Dimension	205 mm (W) x 156 mm (D) x 58 mm (H) (Nuvo-2610VTC) 205 mm (W) x 156 mm (D) x 86 mm (H) (Nuvo-2611VTC, Nuvo-2612VTC)	
Weight	1.9 kg (Nuvo-2610VTC) 2.5 kg (Nuvo-2611VTC) / 2.3 kg (Nuvo-2612VTC)	
Mounting	Wall-mount (optional)	
Environmenta	I	
Operating Temperature	-40°C ~ 70°C*. EN50155 Class OT4	
Storage Temperature	-40°C ~85°C	
Humidity	10%~90%, non-condensing	
Vibration	Operating, MIL-STD-810G, Method 514.7, Category 4 (pending) IEC61373:2010, Category 1, Class B Body Mounted (part of EN 50155) (pending)	
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I (pending) IEC61373:2010, Category 1, Class B Body Mounted (part of EN 50155) (pending)	
EMC	EN 50155:2017, Clause 13.4.8 (pending) EN 45545-2 (Nuvo-2611VTC) (pending) CE/FCC Class A, according to EN 55032 & EN 55035 (pending)	
** For sub-zero operating	g temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.	

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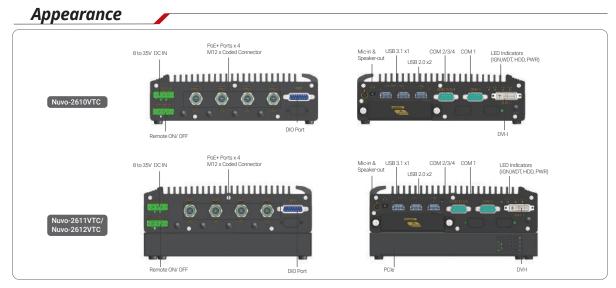
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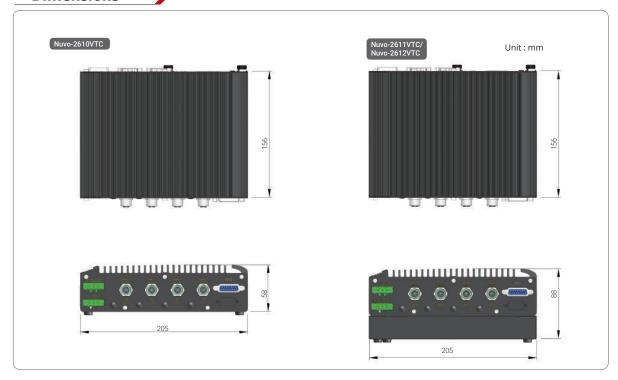


Nuvo-2610VTC Series





Dimensions



Ordering Information

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Model No.	Product Description
Nuvo-2610VTC	Intel® Elkhart Lake Atom® x6425E in-vehicle fanless computer with M12 PoE+ and 15mm 2.5″ HDD/SSD support
Nuvo-2611VTC	Intel® Elkhart Lake Atom® x6425E in-vehicle fanless computer with M12 PoE+, 15mm 2.5" HDD and built-in SuperCAP UPS
Nuvo-2612VTC	Intel® Elkhart Lake Atom® x6425E in-vehicle fanless computer with M12 PoE+, 15mm 2.5" HDD and single-slot PCle Cassette

Optional Accessories

PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -30 to 70°C.
PA-160W-OW	160W AC-DC power adapter 20V/8A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -30 to 70°C.
Wmkit-Nuvo-2600	Wall mounting kit for Nuvo-2600 and Nuvo-2610VTC series, including wall mounting brackets and screws
AccsyBx-FAN-Nuvo-2600E	Single fan kit for the PCIe cassette of Nuvo-2600 and Nuvo-2610VTC series, including one 25x25mm fan and screws

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All specifications and photos are subject to change without prior notice



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US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660