

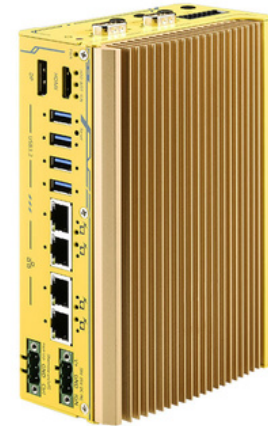
POC-751VTC

Ultra-compact next-gen in-vehicle computer
with Intel® Core™ N-Series CPU

BRESSNER
A ONE STOP SYSTEMS COMPANY

Features

- Intel® Core™ processor of the N-series
- DDR5 4800 SODIMM, up to 16GB
- 4x PoE+ and 2x mPCIe for Wi-Fi/4G/5G module
- Dual display support (HDMI & DP)
- E-Mark certified and EN 50155 EMC compliant



POC-751VTC: The ultra-compact In-Vehicle Computer of the next generation

The POC-751VTC from Neusys Technology is the latest ultra-compact in-vehicle computer designed specifically for in-vehicle use. With its E-Mark certification, the POC-751VTC is ideal for applications such as mobile gateways, mobile surveillance and passenger information systems.

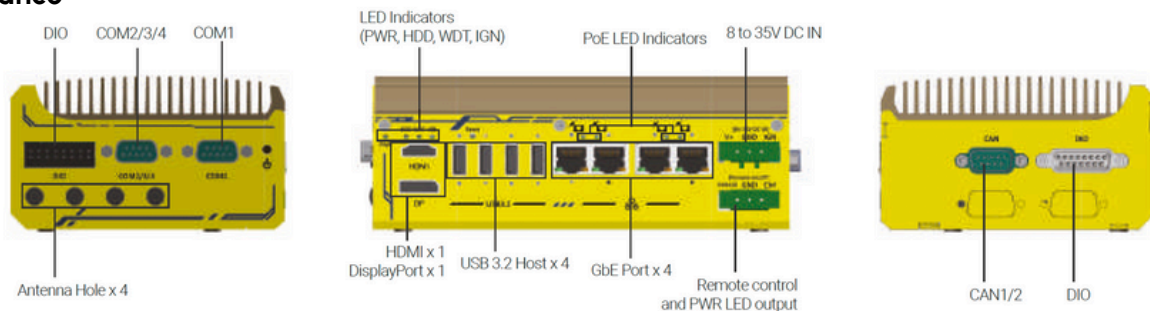
Higher performance thanks to Intel® Alder Lake i3-N305

The POC-751VTC uses the latest Intel® Alder Lake i3-N305 processor with eight CPU cores and supports up to 16 GB DDR5-4800 memory. Compared to its predecessor, the POC-551VTC, it delivers up to 1.3 times the CPU performance. Thanks to Intel UHD graphics with support for OpenVINO, users can run deep learning and inference models for light AI applications.

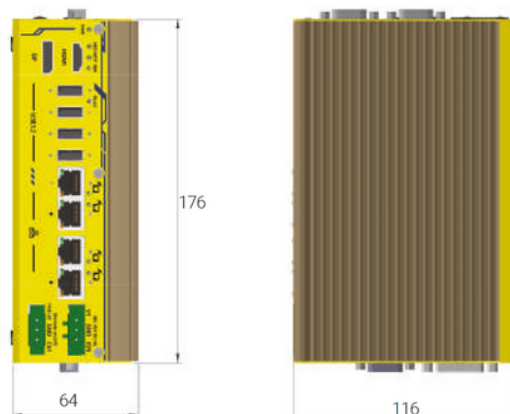
The POC-751VTC offers four 802.3at PoE+ ports that provide up to 25W of power for compatible devices such as IP cameras. In addition, the system has two mini PCIe slots with heat sinks for the installation of wireless communication modules, which are essential for future intelligent vehicle applications. Two isolated CAN 2.0 ports with support for SocketCAN on Linux enable vehicle communication, while isolated digital I/Os allow control of sensors and actuators.

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Appearance



Dimensions (in mm)



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Specifications	POC-751VTC
SYSTEM	
CPU	Intel® Alder Lake Core™ i3-N305 processor (8C/8T, 1.8/3.8 GHz, 15W TDP)
Graphics	Integrated Intel® UHD graphics with 32EUs
RAM	Up to 16 GB DDR5-4800 SDRAM (one SODIMM slot)
TPM	Supports dTPM 2.0
Storage	1x M.2 2280 M key socket for SATA SSD
Expansion	2x full-size mPCIe for WiFi/ 4G/ 5G module with conduction-cooled heat sink
INTERFACE	
Ethernet	4x Gb Ethernet ports from Intel® I350-AM4 4x IEEE 802.3at Gigabit PoE+ ports via RJ45 connection
USB	4x USB 3.2 Gen2 ports with screw lock
COM	1x software-programmable RS-232/422/485 ports (COM1) 3x 3-wire RS-232 connections (COM2/3/4) or 1x RS-422/485 connection (COM2)
Digital I/O	4x isolated DI and 4x isolated DO (on MB) 4x isolated DI and 4x isolated DO (on MeziO)
CANBus	2x isolated CAN 2.0 connection, supports SocketCAN in Linux
Video	1x DP++, supports 4096 x 2160 @ 60Hz 1x HDMI 1.4b, supports 3840 x 2160 @ 30Hz
Power	1x 3-pin pluggable terminal block for remote control and PWR LED output Built-in ignition control
ENVIRONMENTAL	
Cooling	Fanless
Power Supply	1x 3-pole pluggable terminal strip for 8V to 35V DC input (IGN/GND/V+)
Operating Temperature	-40° ~ 70°C
Storage Temperature	-40° ~ 85°C
Vibration / Shock Resistance	Vibration: EN 50155:2017/ IEC 61373, Category I, Class B – Body mounted Shock: EN 50155:2017/ IEC 61373, Category I, Class B – Body mounted
Humidity	10 ~ 90% , non-condensing
Dimensions	176 (W) x 116 (D) x 64 (H) mm
Weight	1.7 kg
Mounting	Horizontal-type wall-mount (Standard) Vertical-type wall-mount (Optional)
Certifications	E-Mark, EN 50121 (EN 50155 EMC) CE/FCC Class A, according to EN 55032 & EN 55035

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Ordering Information	Product Description
POC-751VTC	Intel® Core™ i3-N305 Ultra-compact In-vehicle Computer with 4x PoE+, HDMI, SocketCAN, and mPCIe for WiFi/ 4G/ 5G Modules

Optional Accessories	
PA-60W-OW	60W AC/ DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. Operating temperature: -30°C to 70°C
PA-120W-OW	120W AC/ DC power adapter with 12V, 10A DC output, cord end terminals for terminal block. Operating temperature: -30°C to 60°C
Cbl-DB9F-3DB9M-15CM	DB9 (Female) to 3x DB9 (Male), length: 15CM for COM2/3/4
Cbl-DB9F-2DB9M-15CM	DB9 (Female) to 2x DB9 (Male), Length:15CM for CAN1/2
mPCIe-M2B	NGFF M.2 key B to mini-PCIe adapter with dual nano-SIM slots
mPCIe-M2E	NGFF M.2 key E to mini-PCIe adapter
mPCIe-M2M	NGFF M.2 key M to mini-PCIe adapter
Wmkit-V-POC500	Wall-mount assembly for POC-500 and POC-700 series, vertical type
AccsyBx-FAN-POC-700	Fan assembly for POC-700 series, 80x80x15 mm