

POC-551VTC



Key Features

- · AMD Ryzen[™] embedded V1000 series quad-core 15W CPU
- · -40°C to 70°C rugged wide temperature fanless operation
- Four IEEE 802.3at PoE+ ports with screw-lock
- $\cdot\,$ One isolated CAN bus port for in-vehicle communication
- · One M.2 socket and three mPCIe sockets
- · M.2 2280 M key NVMe (Gen3 x2) socket for fast storage access
- · 4-CH isolated DI and 4-CH isolated DO
- 8 to 35V DC input with built-in ignition power control
- · E-Mark and EN 50155/ EN 45545 certificate

Introduction

POC-551VTC is the next generation ultra-compact, fanless in-vehicle controller offering performances never-seen-before in this form factor. Featuring AMD Ryzen™ Embedded V1000 4-core/ 8-thread processor, POC-551VTC delivers up to 3x times the CPU performance compared to previous generation, POC-351VTC. It combines finesse performance, extraordinary reliability and affordability for versatile in-vehicle applications.

POC-551VTC offers four 802.3at PoE+ ports to supply 25W power to device such as IP cameras. As wireless connectivity is essential for modern invehicle application, POC-551VTC with built-in one M.2 and three mini-PCIe are more applicable for in-vehicle use nowadays. It also integrates CAN bus for in-vehicle communication, and isolated DIO for sensor/ actuator control.

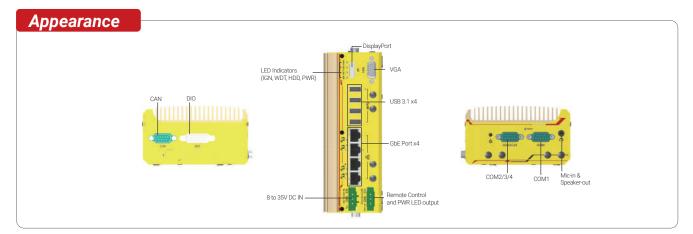
Combining ignition power control and wide-range DC input along with superior performance, POC-551VTC is the perfect solution for all your invehicle application needs in an extremely compact size!

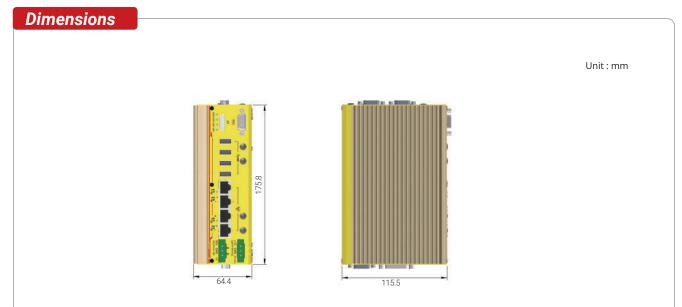
Specifications

System Core		Power Supply	
Processor	AMD Ryzen™ V1605B CPU (4C/ 8T, 2M Cache, 2.0/ 3.6 GHz, 12W - 25W TDP)	DC Input	1x 3-pin pluggable terminal block for 8V to 35V DC input with built-in ignition power control (IGN/GND/V+)
Graphics	Vega GPU with 6 compute units	Remote Ctrl.&LED	1x3-pin pluggable terminal block for remote control and PWR LED
Memory	Up to 16 GB DDR4-2400 SDRAM by one SODIMM sockets	Output	output
TPM	Supports TPM 2.0	Mechanical	
Panel I/O Inte	erface	Dimension	64 mm (W) x 116 mm (D) x 176 mm (H)
Ethernet port	4x Gigabit Ethernet ports by Intel [®] I350-AM4 controller	Weight	1.3 kg
PoE+	4xIEEE 802.3at Gigabit PoE+ ports by Intel® I350-AM4	Mounting	Wall-mount (standard) or DIN-rail mount (optional)
CAN	1x CAN 2.0 port	Environmental	
Isolated DIO	4x Isolated DI and 4x Isolated DO	Operating Temperature	-40°C ~ 70°C*/**/***
USB 3.1	4x USB 3.1 Gen1 ports with screw-lock	Storage	
Video Port	1x VGA, supporting 1920 x 1200 resolution 1x DisplayPort, supporting 4096 x 2160 resolution	Temperature	-40°C ~85°C
	1x software-programmable RS-232/ 422/ 485 ports (COM1)	Humidity	10%~90% , non-condensing
Serial Port	3x 3-wire RS-232 ports (COM2/ 3/ 4) or 1x RS-422/ 485 port (COM2)	Vibration	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)
Audio	1x 3.5 mm jack for mic-in and speaker-out	Shock	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)
Storage Inter	face		EN 50155, EN45545, E-Mark for in-vehicle applications
M.2	1x M.2 2280 M key NVMe socket (PCle Gen3/ x2) installation	EMC	CE/FCC Class A, according to EN 55032 & EN 55024
mSATA	1x full-size mSATA port	* For wide temperature use condition, a wide temperature/industrial mSATA module is required. ** For full function use condition (mini-PCIe, M.2, and mSATA are all adopted), the recommended operatir	
Expansion Bu	IS	temperature is -25°C ~ 6	50°C
Mini PCle	3x full-size mini PCI Express socket with internal SIM socket	*** For extreme wide temperature -40°C ~ 70°C, it is optional with 100% screening, please contact Neousys Technology	
M.2	1x M.2 2242 B key socket for 3G/ 4G option with USIM support		

POC-551VTC

COASTIPC





Ordering Information

Model No. POC-551VTC Product Description AMD Ryzen™ V1605B ultra-compact In-vehicle controller with PoE+, DIO and isolated CAN bus

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-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. operating temperature : -30 to 60 °C.

Optional Cellular Module

NSIO-LTE-7455 Cat. 6 LTE embedded socket modem