POC-551VTC

AMD RyzenTM V1000 Ultra-compact In-vehicle Controller with PoE+, DIO and Isolated CAN bus







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
- · One isolated CAN bus port for in-vehicle communication
- · One M.2 socket and three mPCle sockets
- · M.2 2280 M key NVMe (Gen3 x2) socket for fast storage access
- · 4-CH isolated DI and 4-CH isolated DO
- · 8~35V DC input with built-in ignition power control
- · E-Mark and EN 50155 certificate

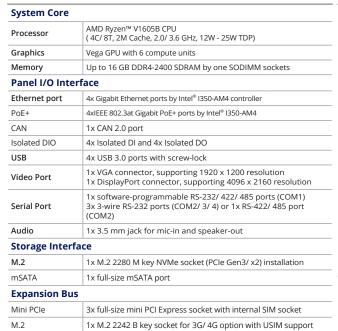
Introduction

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 POC series. 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-PCle 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 can provides perfect solution for all your in-vehicle application needs in an extremely compact size!

Specifications

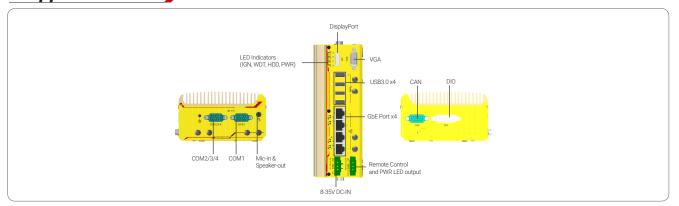


Power Supply		
DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input	
Remote Ctrl.&LED Output	1x3-pin pluggable terminal block for remote control and PWR LED output	
Mechanical		
Dimension	64 mm (W) x 116 mm (D) x 176 mm (H)	
Weight		
Mounting	DIN-rail (standard) or Wall-mount (optional)	
Environmental		
Operating Temperature	-40°C ~ 70°C*	
Storage Temperature	-40°C ~85°C	
Humidity	10%~90%, non-condensing	
Vibration	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)	
Shock	IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)	
EMC	EN 50155, E-Mark for in-vehicle applications CE/FCC Class A, according to EN 55022 & EN 55024	

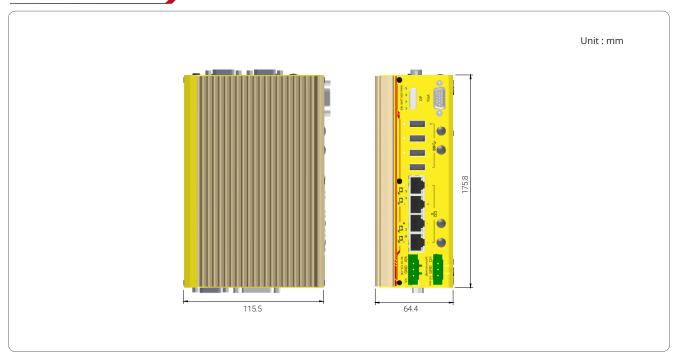
^{*} For sub-zero and over 60°C operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



Appearance



Dimensions



Ordering Information

Model No.	Product Description
POC-551VTC	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

