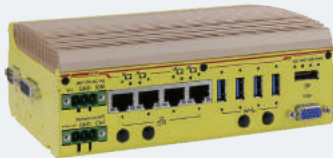


POC-551VTC

AMD Ryzen™ 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 mPCIe sockets
- M.2 2280 M key NVMe (Gen3 x2) socket for fast storage access
- 4-CH isolated DI and 4-CH isolated DO
- 8~35V DC input with built-in ignition power control
- E-Mark and EN 50155 certificate

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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.

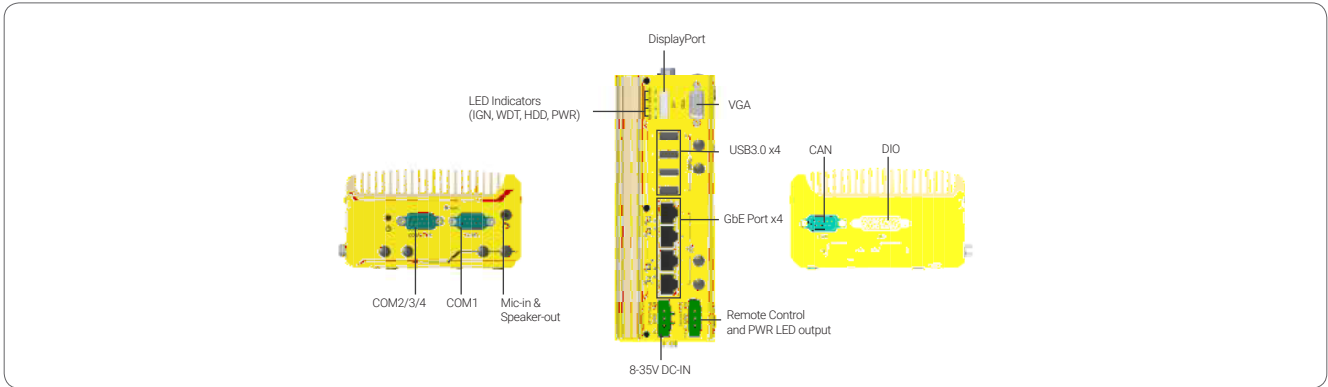
POC-551VTC offers four 802.3at PoE+ ports to supply 25W power to device such as IP cameras. As wireless connectivity is essential for modern in-vehicle application, POC-551VTC with built-in one M.2 and three mini-PCIe are more applicable for in-vehicle use nowadays. It also integrates CAN bus for in-vehicle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

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

Specifications

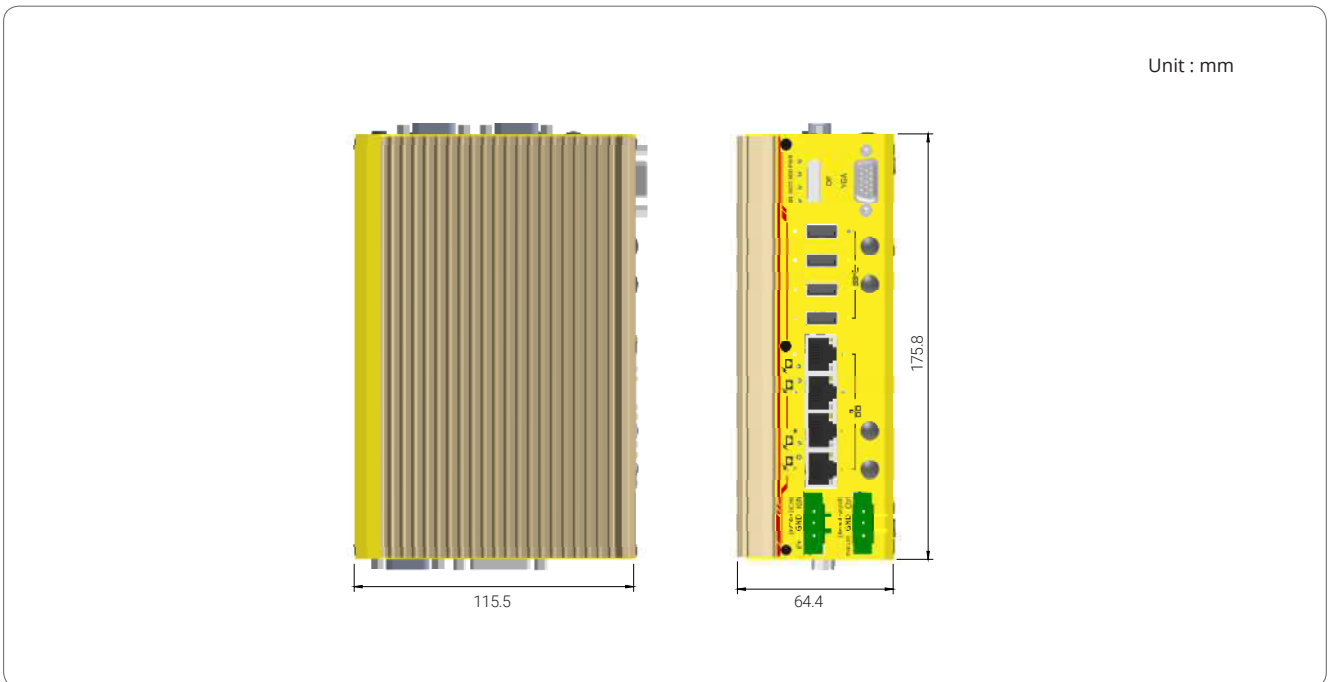
| System Core | | Power Supply | |
|----------------------------|---|--|--|
| Processor | AMD Ryzen™ V1605B CPU (4C/ 8T, 2M Cache, 2.0/ 3.6 GHz, 12W - 25W TDP) | DC Input | 1x 3-pin pluggable terminal block for 8-35VDC DC input |
| Graphics | Vega GPU with 6 compute units | Remote Ctrl.&LED Output | 1x3-pin pluggable terminal block for remote control and PWR LED output |
| Memory | Up to 16 GB DDR4-2400 SDRAM by one SODIMM sockets | Mechanical | |
| Panel I/O Interface | | Dimension | 64 mm (W) x 116 mm (D) x 176 mm (H) |
| Ethernet port | 4x Gigabit Ethernet ports by Intel® I350-AM4 controller | Weight | |
| PoE+ | 4xIEEE 802.3at Gigabit PoE+ ports by Intel® I350-AM4 | Mounting | DIN-rail (standard) or Wall-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 | 4x USB 3.0 ports with screw-lock | Storage Temperature | -40°C ~85°C |
| Video Port | 1x VGA connector, supporting 1920 x 1200 resolution 1x DisplayPort connector, supporting 4096 x 2160 resolution | Humidity | 10%~90% , non-condensing |
| Serial Port | 1x software-programmable RS-232/ 422/ 485 ports (COM1) 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 Interface | | EMC | EN 50155, E-Mark for in-vehicle applications CE/FCC Class A, according to EN 55022 & EN 55024 |
| M.2 | 1x M.2 2280 M key NVMe socket (PCIe Gen3/ x2) installation | <small>* For sub-zero and over 60°C operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.</small> | |
| mSATA | 1x full-size mSATA port | | |
| Expansion Bus | | | |
| Mini PCIe | 3x full-size mini PCI Express socket with internal SIM socket | | |
| M.2 | 1x M.2 2242 B key socket for 3G/ 4G option with USIM support | | |

Appearance



Dimensions

Unit : mm



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 |
|---------------|----------------------------------|