



RVC-E

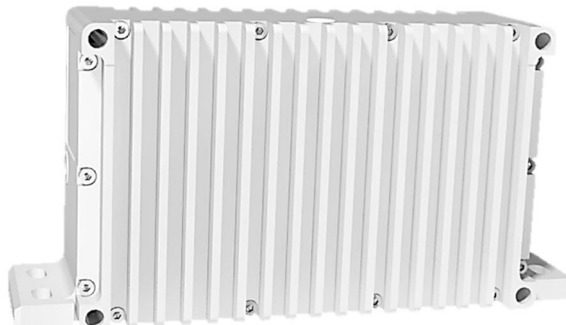
VEHICLE ELECTRONICS

Rugged Vehicle Computer - Embedded

The Rugged Vehicle Computer-Embedded, RVC-E, is a fully rugged, super compact and high performance computer unit developed for harsh environments in accordance to MIL-STD-810 and MIL-STD-461. The unit includes an NVIDIA® Jetson TX2-platform and is equipped with PC-compatible interface ports such as high resolution DVI-D, Ethernet, USB, CAN etc.



Front View



Rear View

Main design features

- PC-compatible external interfaces
- MIL-C-38999 connectors
- All interface ports are filtered/transient protected
- Climatically sealed housing, IP65
- Low power design
- Customized surface treatment/color
- Qualified according to:
MIL-STD-810, MIL-STD-461 and MIL -STD-1275

Configuration

- NVIDIA Jetson TX2i System-on-Module
 - 256 core NVIDIA Pascal GPU
 - ARMv8 Multi-Processor CPU
 - 8 GB 128 bit LPDDR4
 - 32 GB eMMC
- Power input
 - Reverse voltage protection
 - Power switch
 - OS status
 - According to MIL-STD-1275
- Internal status supervisory and log
 - API for reading status and log etc.
- 2 x DVI-D output port
 - High resolution, up to 1920x1200
 - Power Out for external display
 - USB for display communication
- CAN 2.0B
- 2xUSB 2.0 (host)
- Colour White RAL1013
- Linux 64-bit

External connectors

According to MIL-C-38999.

- **X1** Isolated power input, Power switch, OS status
- **X2** RVD-Port with DVI, USB and Power Out
- **X3** RVD-Port with DVI, USB and Power Out
- **X4** Gigabit Ethernet, four ID-inputs
- **X5** 2xUSB 2.0, CAN 2.0B

Dimensions

Height	101 mm
Width	162 mm (202 mm) incl. mounting flanges
Depth	68 mm
Weight	1,2 kg

Miscellaneous

Power consumption: Prel. max 25W

Options

- M.2 SSD module fixed installed
- M.2 module with FPGA
- Customized software with functions such as gateway, data recording, network based video, video coding and image enhancement/fusion/analysis can be offered separately
- Other customized options on request
- Customized colors on request

Mechanical interface

The RVC-E is designed to be fixed mounted in the vehicle. External damping devices are not required.

Environmental

- Comply to MIL-STD-810 and MIL-STD-461. Sealed housing, IP65.
- Operating temperature: -40°C to +65°C
- Storage temperature: -46°C to +71°C

Specifications subject to change without notice

