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.
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

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

- Operating temperature: -40°C to +65°C
- Storage temperature: -46°C to +71°C

Dimensions

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>101 mm</td>
</tr>
<tr>
<td>Width</td>
<td>162 mm (202 mm) incl. mounting flanges</td>
</tr>
<tr>
<td>Depth</td>
<td>68 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.2 kg</td>
</tr>
</tbody>
</table>

Miscellaneous

Power consumption: Prel. max 25W

Specifications subject to change without notice