The RVE is a compact converter platform that enables different video equipment to be connected to the SAAB video distribution system, VDS, DEF STAN 00-82 or a customer specified video distribution system over Ethernet such as GigE Vision with an extremely low latency. The RVE is designed to comply with contemporary standards such as DEF STAN 23-09 GVA and STANAG 4754 NGVA.

The converter enables one or two DVI inputs, one RGB (VGA) input or up to four Composite PAL/NTSC inputs/outputs, combinations are also possible. These inputs can be combined with customizable overlays, be rescaled, deinterlaced, mixed, corrected etc. using the SAAB digital signal processing DiVA-core.

SAAB is able to meet specific customer needs for highly specialized products and services in a number of technical areas. Our rugged vehicle computer- and video- systems are designed to provide high levels of performance and reliability in the toughest environments. Whether your need is minimum space or maximum capability, we can provide a system to meet your specific application.
Main design features

- The RVE is a compact unit for applications where space is limited. The unit is a part of the VDS system that is designed for high image quality, low delay transmission of the video.
- Flexible configuration
- Digital video processing
- SAAB VDS, DEF STAN 00-82 or customer specified video distribution
- BIT functionality
- MIL-C-38999 connectors
- Compact design
- Climatically sealed housing, IP65
- Qualified according to: MIL-STD-810, MIL-STD-461 and MIL-STD-1275

Options

Video input options

- **Analog composite video**
  - Up to 4 simultaneous inputs
  - Robust buffered and filtered differential analog inputs
  - Support PAL, NTSC and RS-170
- **RGB (VGA)**
  - Robust buffered and filtered differential R, G and B inputs
  - DDC EEPROMs with configurable EDID
  - Different sync options
  - Up to UXGA resolution
- **Digital video**
  - Dual multiplexed DVI inputs
  - Dual DDC EEPROMs with configurable EDID
  - Up to UXGA resolution

Video output options

- **SAAB VDS**
- **DEF STAN 00-82 Ethernet Video**
- **GigE-Vision**

Other options

- **Image processing:**
  - Gamma correction
  - Video inversion
  - Mirroring
  - Overlay generation
  - Digital scaling
  - Deinterlacing
  - Video and graphics mixing
- **RS232 output**
  - Isolated RS232 output
- **BIT functionality**
- **GVA & NGVA compliant pinouts**

Environmental

- **Operating temperature:** -40°C to +60°C
- **Storage temperature:** -46°C to +70°C

Mechanical interface

The RVE unit is designed to be fixed mounted in the vehicle. External damping devices are not required.

Specifications subject to change without notice

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**Dimensions**

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<tr>
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<tbody>
<tr>
<td><strong>Height</strong></td>
<td>58 mm</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>138 mm</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>114 mm (excl. connectors)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>1,1 kg (approx.)</td>
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</table>

**External connectors**

The RVE includes three connectors, type MIL-C-38999 series 3:

- **X1:**
  - Power input
  - (not mounted as option)
- **X2:**
  - Ethernet port 100/1000Base-TX
  - (Power input as option)
- **X3:**
  - Video inputs/outputs