



RVE

VEHICLE ELECTRONICS

RUGGED VIDEO TO ETHERNET CONVERTER

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

Dimensions

Height	58 mm
Width	138 mm
Depth	114 mm (exkl. connectors)
Weight	1,1 kg (approx.)

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.

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

Specifications subject to change without notice

