



RVG

VEHICLE ELECTRONICS

Rugged Video Gateway

The Rugged Video Gateway, RVG, is a compact, high performance and low power unit including functions mainly for conversion of the Saab VDS Ethernet format to STANAG 4609 Ethernet format.

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

All electronics are protected in a rugged, sealed housing. No external cooling is needed and the unit is designed for severe environmental conditions including vibration, shock, moisture, temperature, EMI etc. in accordance to MIL-STD-810G and MIL-STD-461F.

- VDS extracting to uncompressed video format
- MPEG conversion to STANAG 4609
- Camera control via DDS format
- Fully rugged
- Military connectors
- Compact design
- Climatically sealed housing
- High performance
- Low power design
- Combined power and LAN cabling

Configuration

- Saab DIVA-CORE (part of VDS)
- Gigabit Ethernet ports:
- 1 x VDS
- 1 x STANAG
- Physically separated ports
- H.264/MPEG-4 AVC according to STANAG 4609 ed 3
- RS232 management port
- Power input according to MIL-STD-1275D, normal mode (battery), restart during crank
- Reverse voltage protection
- Internal status supervisory & log

External connectors

The RVG includes four connectors, type MIL-C-38999 series 3:

- **X1:** Power input
- **X2:** 2x CAN 2.0B, 2x RS232 or 1x RS422 and 1x RS232
- **X3:** VDS LAN + Power input and ID-input
- **X4:** STANAG 4609 LAN

Miscellaneous

Power consumption: nom. 15W, max. 20W

Capacity

- Up to five cameras available in STANAG 4609 format: CCD 512x384 and IR 384x288 or
- Up to three CCD cameras at 1024x768 in STANAG 4609 format or
- One camera in uncompressed video format.
- Approx. latency STANAG: <50-100ms (transmission)

Environmental

- Operating temperature: -40°C to +55°C
- Storage temperature: -46°C to +71°C

Specifications subject to change without notice

