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RVE-SDI

Rugged Video to Ethernet converter

The RVE is a fully ruggedized, compact gateway that bridges legacy video with modern NGVA architectures. It enables up to four legacy video sources to connect directly to NGVA STANAG 4754-compatible networks, supporting tri-rate SD/HD/3G-SDI inputs for maximum flexibility. By simplifying integration and ensuring standards compliance, the RVE provides a reliable path from legacy video to network-enabled tactical systems.

Delivering video output in full compliance with Def Stan 00-82, the RVE features H.264 compression with extremely low added latency, ensuring high-quality, real-time performance.

Powered by Saab's DiVA digital signal-processing core, it also supports advanced imaging functions such as graphical overlays, rescaling, deinterlacing, and image correction—making it an efficient and future-ready solution for modern military vehicle systems.

Core features:

- Up to four simultaneous inputs
- Support for SD/HD/3G-SDI
- Up to Full-HD @ 60Hz input
- Def Stan 00-82 output with H.264 compression
- GVA/NGVA compliant pinout
- MIL-STD 810, MIL-STD 461



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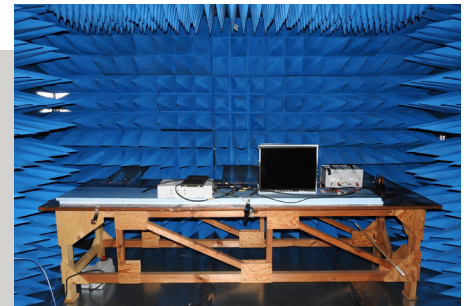
INTEGRATION EQUIPMENT

In today's Generic Vehicle Architecture (GVA) environment, integrating high-definition video should be seamless—not a limitation. The RVE is a high-performance, fully ruggedized video gateway engineered to bridge legacy video sources with modern digital architectures.

RELIABLE OPERATIONS

Our ruggedized product portfolio includes the most reliable solutions for your critical applications. Built to comply with Mil-STD-461 and MIL-STD-810 and beyond meanwhile delivering full performance.

Fully ITAR-free and built with our own IP and in-house production, we ensure total control over quality, innovation, and supply - today and tomorrow.



FLEXIBLE SOLUTIONS

Over the years we have developed a design concept that opens up for adaptations to meet our customers exact needs in terms of connector type or specific pinout, additional interfaces or outer casing surface treatment with a minimum of effort from our side.

Contact us to discuss your dedicated needs.

RVE-SDI Dimensions

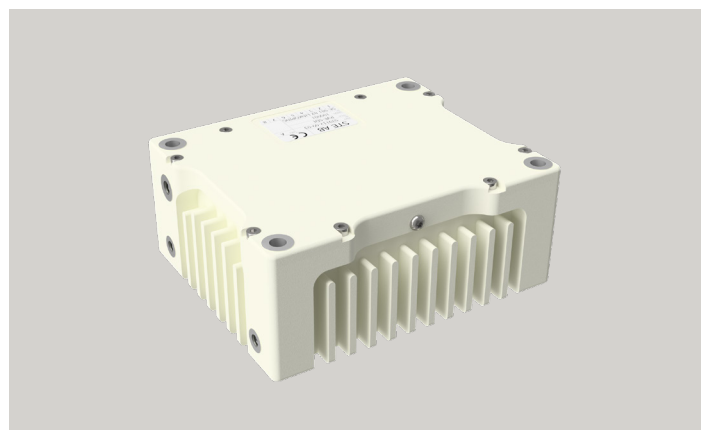
Height: 58 mm

Width: 138 mm

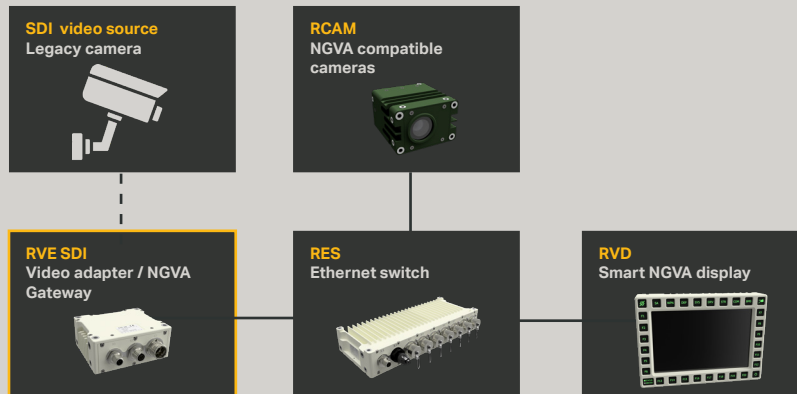
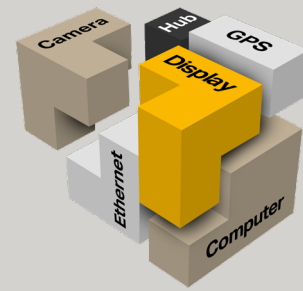
Depth: 114 mm (excl. connectors)

Weight: 1.1 kg (approx.)

RVE-SDI - Rear view



Saab Tactical Electronics portfolio offers building blocks according to open standards to create your dedicated system.



Specifications – Rugged Video to Ethernet converter, SDI

Support for SD/HD/3G-SDI, up to four simultaneous inputs	Option alternatives:
Up to Full-HD @ 60Hz input	Image processing (Gamma correction, video inversion,
Ethernet 100/1000Base-TX output interface	mirroring, overlay generation, digital scaling, deinterlacing
Video Def Stan 00-82 output with H.264 compression	and video and graphics mixing.)
GVA/NGVA compliant pinout	BIT functionality
Near-zero latency	
Operating temperature: -40°C to +60°C	
Storage temperature: -46°C to +70°C	
Sealed housing, IP65	
Comply to MIL-STD-810 and MIL-STD-461	
Power input according to MIL-STD-1275	
MIL-C-38999 series III connector, Electroless Nickel	
See also RVE NGVA gateway version for analog composite video, RVE RS170	

Specifications subject to change without notice.
Company confidentiality: Company unclassified
Defence secrecy: Not classified