



RVD15

VEHICLE ELECTRONICS

Rugged Vehicle Display 15"

The Rugged Vehicle Display, RVD15, is a multifunction display unit (SAAB Core version). The unit is scalable to support different presentation modes: graphics (DVI-D) or video, video on graphics or video on video. Optionally the unit can be configured to process Gigabit-streamed digital video input/ output (part of SAAB VDS-concept). In stand-alone applications, by adding Internal GUI firmware, the presentation is controlled via onscreen menu selections, by use of the touch screen and/or function keys.

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.



Rear view



Front view

Main design features

The RVD15 is based on a TFT-display with LED-backlight technology. The unit includes video/graphics blocks, driver electronics for the LCD, I/O-electronics and power supply.

In this configuration, the RVD15 is designed to be connected to the SAAB Rugged Vehicle Computer (RVC) via one single cable. Optionally, the unit can be customized to support digital or analogue video systems and different control interfaces and protocols.

The RVD15 includes 24 function- and 6 specific display keys.

The RVD15 is designed and approved for severe environmental conditions including vibration, shock, moisture, temperature, EMI etc. in accordance to MIL-STD-810F and MIL-STD-461.

Mechanical interface

The RVD15 is designed for to be fixed mounted in the vehicle. However, to fulfil severe vibration/ shock profiles (DEF-STAN-00-35 for tracked vehicles) external dampers are required. Please contact SAAB for details.

Configuration

- 15.0" display; 1024*768 pixels, LED-backlight, eight bit/colour
- Resistive touch panel; 8-wire, glass-glass structure with anti-reflection and anti-glare, sunlight readable
- Luminance; dimmable up to 700 nit
- Dimming range; 256:1
- Contrast ratio; typically 700:1, dark ambient
- Viewing angles; left/right/up/down min 70° @ min 10 contrast ratio
- Standard switch panel with 24 function keys and 6 specific display keys + 2 indicators
- Display heater
- 1 x Computer port with power input, DVI-D and USB
- Internal status supervisory and log
- Power input according to MIL-STD-1275 (normal mode, unit may restart during cranking)
- RAL1013 White colour is standard, other colours on request

Environmental

- Operating temperature: -40°C to +60°C
- Storage temperature: -40°C to +71°C

Dimensions

Height	294 mm
Width	374 mm
Depth	55 mm (excl. Rear connector)
Weight	5,6 kg (approx.)

Options

- VDS version with
 - 1 x Digital video (SAAB VDS)
 - 2 x CAN 2.0B, isolated (used instead of USB for sending key, touch and status information)
 - 1 x Power input (for power input independent of RVC)

Aux

- Power cons: nom. 25 W, max. 125 W (pre-heating)

Summary of main design features

- Fully PC-compatible external interfaces
- MIL-C-38999 connectors
- Climatically sealed housing, IP65
- Easy maintenance, few parts
- Low power design
- Prepared for future functionality

External connectors

The unit is equipped with one or three rear connectors depending on configuration. The connectors are of type MIL-C-38999, series 3, nickel-plated.

Specifications subject to change without notice

