



RVD6

## VEHICLE ELECTRONICS

# Rugged Vehicle Display 6"

The Rugged Vehicle Display, RVD6, 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.



Front view



Rear view

## Main design features

The RVD6 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 standard configuration, the RVD6 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 RVD6 includes total 17 function- and specific display keys.

The RVD6 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 RVD6 is assumed to be fixed mounted in the vehicle. External damping devices are not required.

## Configuration

- 6.5" display; 1024\*768 pixels, LEDbacklight, eight bit/colour
- Resistive touch panel; 8-wire, glassglass structure with anti-reflection and anti-glare, sunlight readable
- Luminance; dimmable up to 500 nit
- Dimming range; 256:1
- Contrast ratio; typ. 600:1 (dark ambient)
- Viewing angles; left/right/up/down min 70° @ min 10 contrast ratio
- 12 function keys and 5 specific display keys + 2 indicators
- Display heater
- Internal status supervisory and log
- 1 x Computer port; power input, DVI-D and USB

## Environmental

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

## 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
- Instant start-up; <10 s

Specifications subject to change without notice

## Dimensions

Height	156 mm
Width	200 mm
Length	47 mm (excl. Rear connector)
Weight	2,1 kg (approx.)

## Options

- Customized surface treatment/colour
- Customized rear connector housing
- Separate power input according to MIL-STD-1275
- Customized key-pad; key-characters and key-codes
- NVIS-functionality; extended dimming range; 10.000:1 and/or NVIS-graphics mode (red colour is suppressed)
- Analogue video processing
  - DIVA-Core, 2 x Video inputs
  - 1 x VGA input, 1 x Video output
- Digital video processing
  - DIVA-Core (SAAB VDS-concept)
  - 1 x LAN-port; 100/1000Base-TX
  - 4 x LAN-ID pins
- Graphics/ alphanumeric generation
- 1 x CAN-port
- 2 x RS422/RS485/RS232 ports
- 1 x Power output; switched main power
- SAAB API for reading status and log

## Aux

- Power consumption: nom. 15 W, max. 60 W

