

RVD10

VEHICLE ELECTRONICS

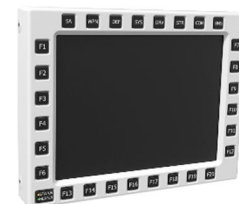
Rugged Vehicle Display 10" GVA

The Rugged Vehicle Display, RVD10, is a GVA compatible multifunction display with resistive touch panel developed for use in harsh environments according to MIL-STD-810 and MIL-STD-461. The display has dual inputs, for both computer graphics (DVI-D) and digital video over Gigabit Ethernet by configurable protocols as DEF-STAN 00-82 or SAAB digital video distribution concept VDS, and can provide a graphical user interface for controls without power of external CPU. The input channels from computer and video can be configured to be displayed individually or overlaid.

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 RVD10 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 RVD10 is designed to be connected to the SAAB Rugged Vehicle Computer (RVC) via one single cable. The unit is also configured to support SAAB-VDS digital video systems.

The RVD10 includes up to 31 function keys and 2 indicators.

The RVD10 is designed and approved for severe environmental conditions including vibration, shock, moisture, temperature, EMI etc. in accordance to MIL-STD-810 and MIL-STD-461.

Mechanical interface

The RVD10 has internal mechanical dampers and is designed to be fixed mounted in the vehicle.

Configuration

- 10.4" display; 1024*768 pixels, LED-backlight, eight bit/colour
- Resistive touch panel; 8-wire, GFG, low reflection type
- Luminance; dimmable up to 500 nit
- Dimming range; 256:1
- Contrast ratio; typically 800:1, dark ambient
- Viewing angles; left/right/up/down min 70° @ min 10 contrast ratio
- Customized switch panel with 2 x 6 function keys and 6 specific display keys + 2 indicators
- Display heater
- 1 x Computer port; Power input, DVI-D and USB
- Internal status supervisory and log
- Power input according to MIL-STD-1275, normal mode, possible restart during crank
- RAL1013 White colour

Environmental

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

Dimensions

Height	220 mm
Width	280 mm
Depth	44 mm (85 mm incl.connector)
Weight	2,8 kg (approx.)

Options

- Customized key-pad; key-characters and key-codes
- NVIS-functionality; extended dimming range; 10.000:1 and/or NVIS-graphics mode API for reading status and log
- Digital Video according to DEF STAN 00-82
- Customized color on request

Aux

Power cons: nom. 25 W, max. 80 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 rear connector type MIL-C-38999, series 3, nickel-plated.

Specifications subject to change without notice

