SAAB

R5 RIC

The R5 RIC is a cost effective tool transforming advanced analogue radar systems into the digital age, with all the modern signal filtering and analysis tools available by such a transition. It can also be used as a protocol converter for digital radar signals.

High resolution

The R5 RIC Radar Interface Computer features cutting edge signal acquisition and processing for high resolution digital radar video.

Flexible

The platform has flexible interfaces enabling radars from a variety of manufactures to be used with the R5 RIC Radar Interface Computer. This opens up legacy radars for integration with any multi sensor command and control system.

Digitized radar video is delivered through standard compliant UDP/IP Ethernet at speeds up to 1 Gbit/s.

Cost efficient

The R5 RIC extends operational lifetime of legacy systems making them a highly viable alternative compared to buying a new radar system.

Remote control

The R5 RIC can easily be remotely controlled and monitored over Ethernet or RS232. Software for easy configuration and monitoring is delivered with the product.

Features

- Compatible with a variety of radars
- Flexible hardware interfaces
- Excellent performance and reliability
- Acquisition with up to 16-bit per sample
- Dual Acquisition at up to 100 Msps
- Built in NTP client
- Support for ACP/ARP
- Optional support for Syncro
- Full remote configuration and monitoring over Ethernet/RS232
- Limited monitoring and configuration over web interface
- Advanced Windows based configuration and monitoring tool software included

Electrical interfaces

- 2 Coaxial Radar video inputs with programmable termination
- 1 Gbit Ethernet for digital video input
- Coaxial Radar video sync input with programmable termination
- Azimuth Change Pulse and Azimuth Reset Pulse (ACP/ARP) with programmable termination
- Optional Syncro input
- GPS input
- 16 programmable digital inputs / outputs
- 4 programmable analogue inputs / outputs
- 8-bit LVDS digital video
- 1 Gbit Ethernet for digital radar video output
- 1 Gbit Ethernet for configuration and monitor
- 2 RS232 serial interfaces
- 2 USB ports

Power supply

- 12 - 24 VDC
- 20 W

Physical

- 190 x 227 x 80 mm (L x W x H)
- 2300 g

Environmental

- Operating temperature: -15 to +55°C