



# R5 SUPREME

## NETWORKED AIS FOR SOLAS AND ADVANCED APPLICATIONS

The SAAB R5 SUPREME AIS system is designed for SOLAS vessels and advanced applications such as Secure and Warship AIS. It fully utilises our fifth generation transponder technology, building on the success of the R4 AIS system, which is in operation aboard some 20,000 ships worldwide.

The R5 system features cutting edge digital radio technology, resulting from more than five years' research into software defined radios. Sharing radio technology with military grade systems, the R5 technology is a big leap forward into the future of AIS radios.

The highly versatile R5 platform will continue to evolve as new requirements are introduced, and will remain at the forefront of AIS technology for many years to come.

The SUPREME version of the R5 technology provides the user with a flexible, future-proof product. The large colour touch-screen display and multitude of interfaces make the system highly appropriate for integration into modern networked bridge solutions.

### FEATURES

- 7" ultra-bright high contrast colour LCD
- Touch screen, keypad or USB keyboard control
- Ethernet, RS-422 and USB interfaces
- Optional additional display units for redundant or slave operation
- Use USB memory for quick software upgrades, data logging and more
- Automatic, manual or remote dimming
- Pilot plug integrated in display
- Full AIS-SART support
- Text messaging
- VHF communication test function
- R4 Navigation Sensor Compatible
- Gimbal or flush mounting
- Weather-proof design



## TECHNICAL SPECIFICATIONS

### PHYSICAL

Transponder  
Size W x H x D: 237x79x170 mm  
Weight: 1.7 kg

Display  
Size W x H x D: 255x140x85 mm  
Weight: 1.8 kg  
Resolution: 800x480 (WWGA)  
TFT: IPS-Pro  
Touch: Resistive  
Brightness: 800 Nits  
Power input: 12/24 VDC

### POWER CONSUMPTION

Transponder: 20 W (60 W peak)  
Control & Display unit: 10 W

### GPS RECEIVER (INTERNAL)

50 channels (Ready for DGPS)  
Frequency: L1 (1575.42 MHz)  
Update rate: 1 Hz  
Antenna feed: 5 V DC

Position accuracy (SA off)  
Position <2.0 m: DGPS (CEP)  
Position <2.5 m: GPS (CEP)  
Sensitivity: Tracking -162 dBm  
Cold Start -148 dBm

### VHF TRANSCEIVER

SDR Transceiver  
Frequency: 155-163 MHz  
Output power: 1/12.5 W ( $\pm 1.5$  dB)  
Sensitivity: <-111 dBm

### ELECTRICAL INTERFACES

Transponder: Ethernet 10/100 Mbit  
6 RS-422 I/O  
4 Digital In, 4 Digital Out  
Alarm Relay  
NMEA 2000 (option)

Display: Ethernet 10/100 Mbit  
3 RS-422 I/O  
3 Digital In, 3 Digital Out  
Pilot plug  
USB 2.0  
NMEA 2000 (option)  
SDHC Reader

### ENVIRONMENTAL DATA

IEC 60945  
Oper temp: -15 to +55 °C

Specifications subject to change without notice