ARGON
Dual Channel AIS Receiver
Product Type: PCA Module

Integrated dual channel AIS receiver module which will efficiently receive and decode all AIS message types. Advanced core technology delivers superior operational performance and reliability.

- Receives and decodes all AIS message types
- NMEA0183 and NMEA2000 data output
- Low power consumption
- Customisable
- Integrated HF-AIS™ core technology delivers exceptional operational performance.

Small, integrated design for easy, low risk integration

Multiple data interfaces – NMEA0183, NMEA2000, USB

Designed and manufactured to the highest international standards

Integration

This module is specifically designed for easy, quick and low risk integration into any enclosure.

A full integration kit is available for developers, which provides detailed information and support on all physical, electrical and software interfaces.

Customisation

SRT modules offer unmatched capability to be customised for specific applications and markets.

Redundant processing power and built-in flexibility allows the implementation of a wide range of additional features, functions, interfaces and messaging.

Certification

This module meets the required IEC international standards and has been independently tested by accredited European test houses. The module is provided with a full suite of formal test reports, including RF and AIS protocol to support certification in any jurisdiction globally.

Physical Specification

Dimensions	70 x 55 x 13mm (D x W x H)
Weight	40g

Electrical Specification

Power supply	USB or DC power: 12 to 24VDC (9.6V min to 28.8V max)
Power Consumption	60mA @ 12VDC <0.7W average

Connectors

VHF antenna connector	U.F.L.
Power and data	40 pin PCB header (1.25mm pitch Hirose DF13 series)

Data Interface

NMEA2000®	✔
USB	✔
Two bidirectional NMEA0183 interfaces, configurable baud rate	✔
SD/MMC interface	✔
Silent mode switch input	✔
Outputs for external status LEDs	✔

User Interface

LED indicators for power	✔
AIS receive indication	✔
Fault indication	✔
SD card activity	✔

VHF Receivers

Receiver 1 frequency	161.975 MHz
Receiver 2 frequency	162.025 MHz
Channel bandwidth	25KHz
Modulation mode	25KHz GMSK
Bit rate	9600 b/s
Receiver sensitivity	<-110dBm at 20% packet error rate

Packaging

Each module is individually packaged in an ESD bag and boxed in batches of 100 units.

Box Size	29 x 41 x 20 inches (D x W x H)
Box Weight	6.4kg

Dimensions
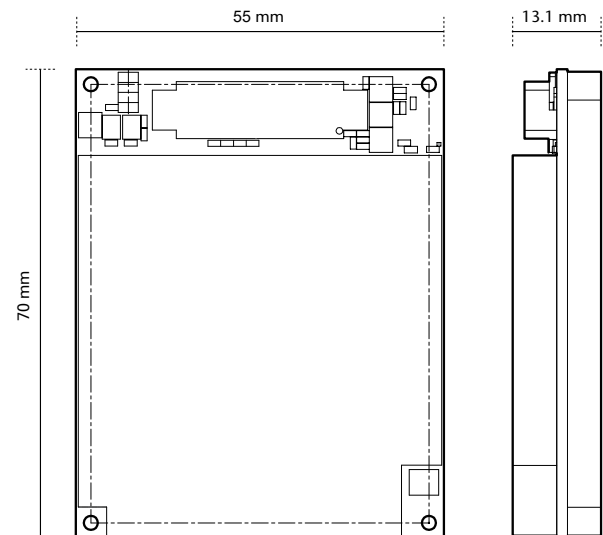
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