SRT

Product Data Sheet

Product Code: 428-0001

IRIS

AIS Class B Transceiver Integrated Splitter

Product Type: OEM White Label

IRIS is an optional (2W/CS or 5W/SO) AIS Class B transceiver with integrated GPS antenna and high performance antenna splitter which allows it to share one VHF antenna with a DSC VHF radio without loss of AIS or radio performance. Compact, ruggedized and IP66 & IP67 water proof, with exceptional operational performance due to integrated HF-AIS™ core technology.

- Globally certified to IEC & ITU Class B standards
- Integrated high performance antenna splitter
- Compact, ruggedized, weather and IP66 & IP67 water proof
- Optional high performance GPS antenna (external GPS antenna supplied)
- Dual NMEA2000 & 0183 connectivity
- Integrated HF-AIS™ core technology delivers exception operational performance
- Integrated WiFi and Bluetooth
- SAT-Trak satellite tracking technology for extended range tracking

HF-AIS SAT-Trak

Configuration options

	2W CSTDMA	5W SOTDMA	5W SOTDMA+
Product Code:	428-0008	428-0010	428-0006
WiFi / Bluetooth			✔
VDR			✔
Anti-tamper			✔
Anti-spoofing	✔	✔	✔
Internal GPS antenna			✔
SAT-Trak	✔	✔	✔

Integrated HF-AIS™ technology delivers exceptional operational performance

IP66 and IP67 water and weather proof

VHF antenna with duplex antenna splitter

Branding

Our OEM products are supplied fully branded as per your specific requirements. This includes the product, all manuals and packaging such that upon arrival they are instantly ready for you to ship to your customers.

Customisation

SRT products offer unmatched capability to be customised for specific applications and markets. Additional features and functions can be specified and implemented and range from the simple to complex encryption and messaging features.

Certification

This product is fully tested and certified to the relevant international standards and product specifications. As part of the OEM customisation process into your brand, international certification can be transferred into your brand name within a matter of weeks.

Technical Details

Product Code: 428-0001

Physical Specification

Dimensions	173 x 128 x 53mm (L x W x H)
Weight	380g

Electrical Specification

Power supply	12 to 24VDC
Power consumption	220mA @ 12VDC

Data Interface

NMEA2000	✔
WiFi	✔
USB	✔
IEC61162-1(NMEA0183) output, 38400baud	✔
IEC61162-1(NMEA0183) input, 4800baud	✔
Silent mode switch input	✔

User Interface

LED indicator for power	✔
LED indicator for transmit timeout	✔
LED indicator for error	✔
LED indicator for silent mode	✔

VHF Transceiver

Transmitter	x 1
Receiver	x 2
Frequency	156.025 to 162.025MHz
Output power	5W or 2W Depending on variant
Receiver sensitivity	<-107dBm @20% PER

GNSS Receiver

Channels	50
Compliance	IEC61108-1
Extras	GLONASS

Standards Compliance

AIS Standards	IEC62287-1 Ed 2 IEC62287-2 Ed 2 ITU-R M.1371-4 ITU-R M.1371-5
Environmental standard	IEC60945 Edition 4
Serial data interface standards	IEC61162-1 Ed 5.0 IEC61162-2 Ed 1.0
GNSS performance standards	IEC61108-1 Ed 2.0 IEC61108-2 Ed 1.0
NMEA2000® interface standard	NMEA2000® Edition 3.101
Product Safety	EN60950-1 2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013
WiFi	FCC U30-G2M5477

RF Connectors

VHF antenna output	SO239
VHF radio input	SO239
GNSS antenna	TNC
NMEA 2000	Micro Connector
Power/NMEA 083/USB/ silent mode	12 Way

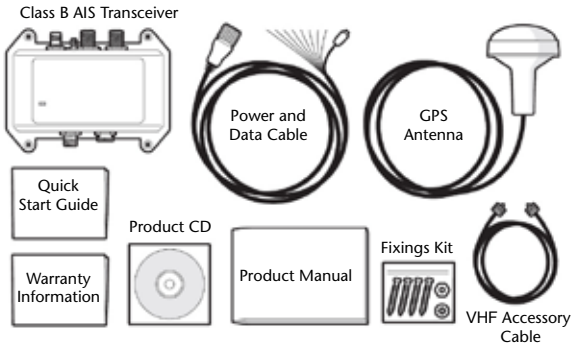
RF Interfaces

Insertion loss	(receive) 0dB / (transmit) <1dB
Power handling	VHF port: 25W
Operating frequency range	156MHz to 163MHz

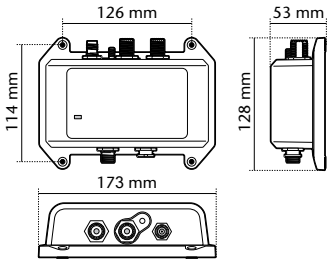
Environmental

Waterproof	IP66 and IP67
IEC 60945	Exposed category
Operating temperature	-25°C to +55°C

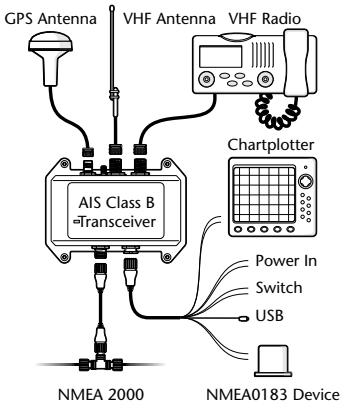
What's In The Box



Dimensions



System Diagram



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SRT enhances maritime domain awareness by developing and manufacturing tracking technology and system solutions for individual vessel owners, port authorities, maritime infrastructure owners, coast guards and national security agencies around the globe. Applications include the tracking of commercial and leisure vessels; sustainable fishery; anti-collision; search and rescue; waterway management, port and coast security; pollution management and environmental management.

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