

IRIS

AIS Class B Transceiver with integrated VHF antenna splitter

Product Type: Standard OEM

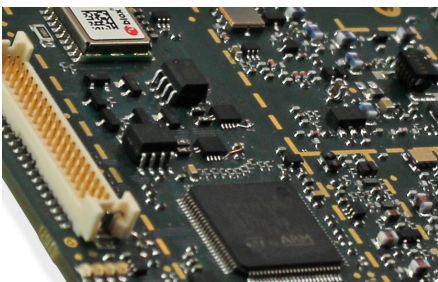
IRIS is a uniquely flexible AIS Class B transceiver OEM product solution that allows you to create a truly customised AIS Class B that meets your specific requirements and is supplied as a completely packaged finished product to your specifications. IRIS has a fully integrated high performance VHF antenna splitter with active fail safe protection that enables IRIS to share the same VHF antenna with a VHF/DSC radio without performance loss. IRIS is ruggedized and certified IP67 weather and water proof, with high quality materials for longevity in even the harshest environment. Powered by HF-AIS core technology, IRIS delivers best in class performance and has a broad range of configuration options including being available in either standard (2W-CSTDMA) or high powered (5W-SOTDMA).



- Integrated VHF antenna splitter
- Globally certified AIS Class B both Standard 2W and High Powered 5W
- Integrated HF-AIS core technology
- Ruggedized, weather and water proof (IP67)
- Ultra low power consumption
- Dual NMEA0183 & NMEA2000 data output
- Multiple configuration options

Configurations Include

Wifi & Bluetooth	5W SOTDMA	SAT-Trak – satellite tracking
Anti-tamper & Anti-spoofing	2W CSTDMA	Integrated VDR
Encryption	Silent Mode	Intelligent onboard processing



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.

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	<-110dBm @20% PER

GNSS Receiver

Channels	72
Compliance	IEC61108-1 Ed 2.0 IEC61108-2 Ed 1.0
	GLONASS

Standards Compliance

AIS Standards	IEC62287-1 Ed 3 IEC62287-2 Ed 2 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

Connectors

VHF antenna output	SO239
VHF radio input	SO239
GNSS antenna	TNC
Standard 5 way NMEA 2000	Micro Connector
Power/NMEA 083/USB/ silent mode	12 way circular multipole (cable provided)

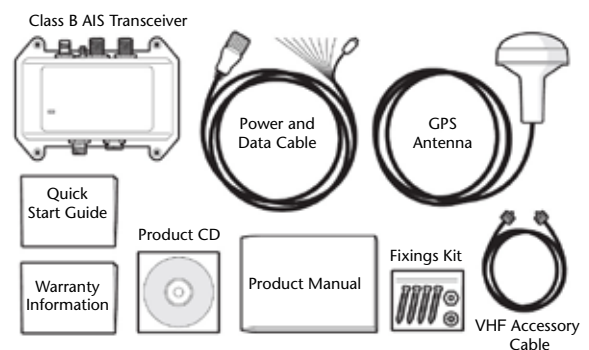
RF Interfaces

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

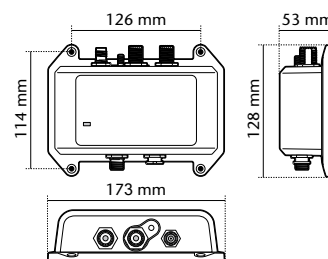
Environmental

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

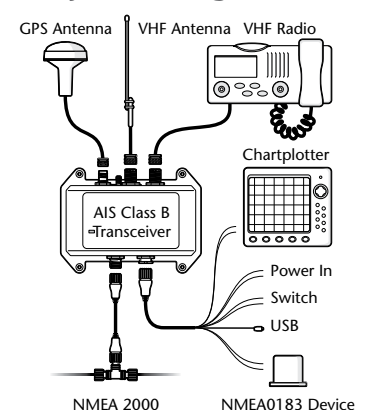
What's In The Box



Dimensions



System Diagram



201-0808:1

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.

Contact us now for your OEM requirements:

SRT Marine Systems plc
Wireless House
Westfield Industrial Estate
Midsomer Norton
Bath BA3 4BS, UK

T +44 (0) 1761 409 500
F +44 (0) 1761 410 093
E info@srt-marine.com
W srt-marine.com

