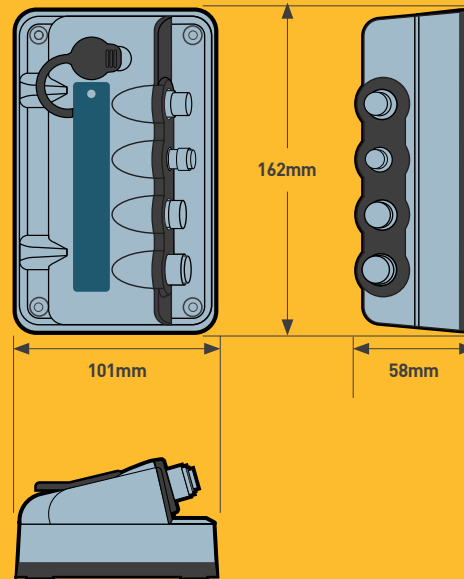


## Specifications

<b>Transmitter</b>	
Transmit Power	5/1 Watts
Frequency Range	156.025 – 162.025 MHz
Modulation	
AIS	GMSK: BT 0.4
<b>Receiver</b>	
Sensitivity	-107 dBm for 20% packet error rate
<b>Frequency Range</b>	
AIS RX1 and RX2	156.025 – 162.025 MHz
DSC	156.525 MHz
<b>General</b>	
Temperature Range	-15°C to +55°C 5°F to 131°F
Waterproof	IPx7 (1 metre for 30 minutes)
Supply Voltage Range	9.6 V to 31.2 V
GPS receiver	High sensitivity
Channels	99 acquisition/33 tracking
<b>Interfaces</b>	
Serial ports	IEC61162-1, -2 (NMEA 0183) 2 Rx/Tx NMEA2000® USB WiFi IEC802.11 bgn
<b>Compliance Standards E&amp;OE</b>	IEC62287-2, IEC60945

## ATB1 dimensions



# ATB1 Class B AIS Transponder

Stay safe – see and be seen  
with Ocean Signal's ATB1



Increased visibility to other vessels (SOTDMA)



FREE user-friendly mobile app for set up



WiFi, USB, NMEA 0183 and NMEA 2000® connectivity



Simple to install and use



Superior internal 99 channel GPS receiver



Supplied with external mount GPS antenna

The Ocean Signal ATB1 Class B AIS Transponder incorporating the superior SOTDMA access scheme provides increased visibility and safety at sea.



# Features and Specifications

## Features

The fully compliant ATB1 Class B AIS Transponder from Ocean Signal is the latest in a long line of essential sea-safety equipment developed and manufactured in the UK for the Maritime market. Designed as an aid to collision-avoidance, it provides a significant advantage in navigational safety giving you the peace of mind that your vessel will be seen day or night, no matter the weather, on today's busy waterways.

Your vessel information such as position, speed, course and heading is ascertained automatically and continuously using the impressive internal multi-GPS receiver for accurate global positioning. Boasting 99 acquisition channels and 33 tracking channels, this advanced technology ensures that the AIS transmissions provide the most accurate indication of your vessel's position at all times.

Other vessel information such as vessel name, call sign, type and dimensions as well as the MMSI are also transmitted automatically from the ATB1. This information is uploaded to the ATB1 via WiFi directly from Ocean Signal's user-friendly mobile app or website. Once this information has been uploaded, it remains stored in the unit's non-volatile memory even if powered down for long periods of time.

The ATB1 also receives and interprets AIS messages from other AIS equipped vessels within range, which can then be relayed effortlessly to other navigation devices such as chart plotters, laptops or mobiles using the ATB1's NMEA 0183, NMEA 2000®, USB or WiFi outputs.

Using the superior SOTDMA\* access scheme sets the ATB1 apart from the CSTDMA\*\* class B products available. This Ocean Signal Class B unit has the same AIS transmission priority as a class A unit, giving the added assurance that there will be no loss or delay of transmission, even in high-traffic areas.

The ATB1 also has a faster reporting rate and higher output power than CSTDMA class B units. It sends AIS transmissions every 5 seconds instead of the maximum two transmissions per minute and the 5W output power instead of 2W allows your transmissions to reach further.

A multi-colour LED indicator light on the ATB1 signals the on-going operational status of the unit. This additional safety feature provides you the confidence of knowing that the ATB1 has continuous AIS transmission and optimal performance.

The ATB1 has a sleek yet rugged waterproof design that is high on performance and low on energy consumption. It is quick and simple to install and comes complete with an external GPS antenna, meaning that all you need is the use of a suitable device (mobile phone, tablet or PC) to upload your vessel information, and you can begin transmitting your AIS messages within minutes.

A leader in life-saving maritime products for the professional and leisure markets, Ocean Signal yet again provides the ultimate in safety and peace of mind with the ATB1 Class B Transponder.

\* Self Organised Time Division Multiple Access  
\*\* Carrier Sense Time Division Multiple Access  
Visit [www.oceansignal.com](http://www.oceansignal.com) for more detailed information about SOTDMA and CSTDMA



Micro USB connection located under rubber seal on top of ATB1



Simple easy access connections

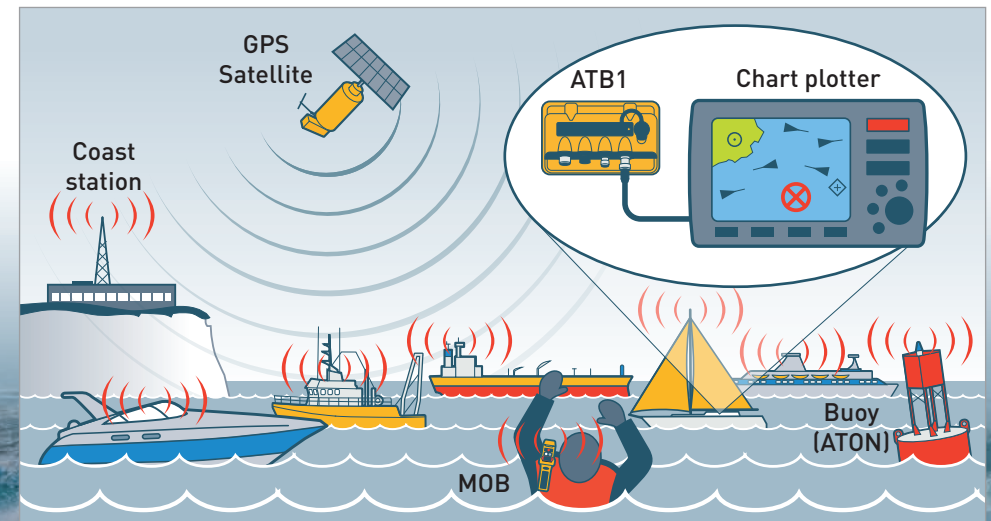


External mount GPS antenna supplied with the ATB1



The ATB1 will relay MOB1 transmissions to your AIS Alarm or plotter

## Network diagram



Whilst every effort has been made to ensure the information in this leaflet is accurate, products and specifications may be changed without notice.