

# em-trak B100

## AIS Class B Transceiver

**Improve your safety and have fun on the water with the em-trak B100.**

The em-trak AIS B100 is engineered to provide you with reliable high performance AIS receive and transmit capability.



**Dual channel receiver**  
Built-in high performance dual channel receiver ensures you receive all AIS messages.



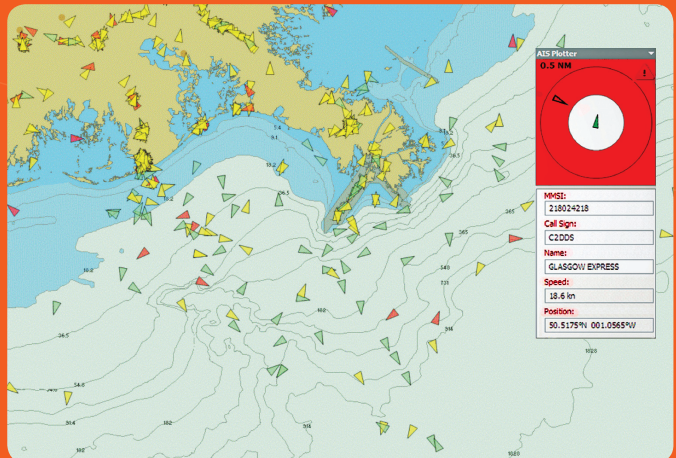
**Performance**  
The B100 uses **Rmax™** technology to ensure maximum range and AIS message processing.



**Easy to install**  
Small and lightweight with NMEA2000, NMEA0183 and USB connectivity for easy installation. Compatible with most chart plotters, PC's and Macs.



**SD card slot**  
Enables secure programming of the B100 as well as recording of AIS voyage data.



## Features and Specifications

- **Rmax™** technology for high performance
- Small and lightweight
- Silent mode function
- High quality, engineered to last
- SD card for data logging
- NMEA2000 & NMEA0183
- USB, PC and Mac connectivity

### Physical

- Size – 116mm x 115mm x 37mm (4.56 x 4.52 x 1.45 inches)
- Weight – 150g

### Power

- 12 or 24 V DC (9.6-15.6V)
- Power consumption < 0.2A nominal, 2A peak

### GPS Receiver (AIS Internal)

- 50 channel IEC61108-1 compliant

### Data Interfaces

- USB
- NMEA2000
- NMEA0183 38.4k baud bi-directional
- NMEA0183 4.8k baud bi-directional interface for data multiplex

### VHF Transceiver

- Transmitter x 1
- Receiver x 2 (one time shared between AIS/DSC)
- Frequency: 156.025 to 162.025 MHz in 25kHz steps
- Output power 33dBm ± 1.5 dB
- Channel bandwidth: 25kHz
- Bit rate 9600 b/s GMSK & 1200 b/s FSK
- RX sensitivity <-107dBm at 20% packet error rate

### Product Approvals

Meets the following approvals:

- CE marking under R & TTE directive for Europe
- FCC
- Industry Canada

This product conforms and is certified to the IEC Class B 'CS' AIS Standard IEC62287-1 (Edition 2.0).

### Supplied with:

- GPS Antenna
- 2m (6.5ft) power and NMEA0183 data cable
- 1m USB cable
- CD with proAIS2 configuration software
- User manual and quick start guide
- Mounting screws

CE01680

### Product Order Information

- Product Name: em-trak B100
- Product Code: 411-0001

The AIS B100 is an aid to navigation and must not be relied upon to provide accurate navigation information. AIS is not a replacement for vigilant human lookouts and other navigation aids such as Radar. The performance of the B100 may be seriously impaired if not installed as instructed in the user manual, or due to other factors such as weather and/or nearby transmitting devices. Compatibility with other systems may vary and is reliant on the third party systems recognising the standard outputs from the B100.

Your em-trak dealer:



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