

HIGH TRANSMIT POWER (5W SOTDMA)

B952 CLASS B | AIS Transceiver



DESCRIPTION

The B952 is a high transmit power (5W SOTDMA) Class B AIS transceiver that is small and lightweight, yet delivers the very best AIS receive and transmit performance so you see more AIS information and targets at maximum range – all achieved with the lowest power consumption.

The B952 combines WiFi and Bluetooth for seamless wireless connectivity and AIS data streaming to any mobile device or PC. With built-in intelligent connectivity, integrated next generation GPS receiver & antenna and a unique FLEXI-FIT™ bracket system, safe and secure installation is simple.

FEATURES

- | Certified AIS Class B – 5W SOTDMA
- | Integrated WiFi & Bluetooth
- | Global certification - USCG / FCC / Canada / Europe
- | SRT-AIS™ Transceiver Engine for superlative proven performance
- | FLEXI-FIT™ bracket system for easy, convenient and secure installation
- | Internal high-performance GPS receiver and antenna (external antenna optional)
- | Water, pressure spray and damp proof (IPx6, IPx7 certified)
- | Protected from vibration, shock and extreme temperatures
- | Small and lightweight
- | Ultra-low power consumption – best in class
- | Guaranteed connectivity and interoperability with any app, chart plotter, smart phone, tablet or PC
- | NMEA 0183 & NMEA 2000
- | Automated health and performance monitoring
- | Silent mode (transmit-off) function
- | Enhanced RF screening to protect against electromagnetic interference
- | Built-in power surge protection



PHYSICAL & ENVIRONMENTAL SPECIFICATION

| | |
|-----------------------|------------------|
| Size (H x W x D) | 150 x 115 x 45mm |
| Weight | 385g |
| Operating temperature | -25°C to +55°C |
| Storage temperature | -25°C to +70°C |
| Ingress protection | IPx6 and IPx7 |

ELECTRICAL SPECIFICATION

| | |
|---|--|
| Supply voltage | 12V or 24V DC |
| Supply voltage range | 9.6V - 31.2V DC |
| Average current (at 12V) | 170mA |
| Average current (at 12V) (wireless off) | 135mA |
| Peak current | 2.5A |
| Average power consumption (at 12V) | 2.0W |
| Average power consumption (at 12V) (wireless off) | 1.6W |
| Galvanic isolation | NMEA 0183 inputs only, NMEA 2000, VHF antenna port |

CONNECTORS

| | |
|-----------------------------|---------------------------|
| VHF antenna | SO-239 |
| GNSS | TNC |
| Power/NMEA 0183/silent mode | 12 way circular multipole |
| NMEA 2000 | 5 way Micro-C connector |
| USB | USB Micro-B |

DATA INTERFACES

| | |
|-----------|--|
| NMEA 0183 | 2 x bi-directional ports |
| NMEA 2000 | NMEA 2000 Ed 3.101, LEN=1 |
| USB | PC virtual com port for NMEA 0183 data |
| WiFi | IEEE 802.11 (a/b/g), client and access point mode supported (2 connections in access point mode) |
| Bluetooth | BT Classic 4.0, 7 concurrent connections |

STANDARDS COMPLIANCE

| | |
|---------------------------------|--|
| AIS standards | IEC 62287-2 Ed. 2 ITU-R M.1371.5 |
| Product safety standards | EN60950-1 2006 +A1:2009 +A1:2010 +A12:2011 +A2:2013 EN62311:2008 |
| Environmental standards | IEC 60945 Ed. 4 |
| Serial data interface standards | IEC 61162-1 Ed 5.0 IEC 61162-2 Ed 1.0 |
| NMEA 2000 | NMEA 2000 Ed 3.101 |
| GNSS performance standards | IEC 61108-1 Ed 2.0 IEC 61108-02 Ed 1.0 |

GNSS

| | |
|-----------------------------------|--|
| Systems supported | GPS, GLONASS, BeiDou, Galileo (two of any combination, three including GPS, Galileo) |
| Channels | 72 |
| Internal/external antenna | Internal or optional external antenna |
| Time to first fix from cold start | 26s |

VHF TRANSCIVER

| | |
|------------------------------------|--------------------------------|
| VDL access scheme | SOTDMA |
| Operating frequency | 156.025MHz - 162.025MHz |
| Channel bandwidth | 25kHz |
| Receivers/transmitters | 2 x receivers, 1 x transmitter |
| AIS receiver sensitivity (20% PER) | -111dBm |
| AIS transmitter power | 5W (+37dBm) |

USER INTERFACE

| | |
|------------|---|
| Indicators | Power, transmit timeout, error, silent mode |
|------------|---|

IN THE BOX

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|---|
| 1 x AIS transceiver |
| 1 x Power and data cable (2M) |
| 1 x FLEXI-FIT™ mounting bracket |
| Complete with screws & optional fixing tape |

WARRANTY

With em-trak you can buy with confidence. If you are unhappy with your new product for any reason, within two days of receipt and subject to the product and packaging being complete and undamaged, you may return it to us for a full refund. We are sorry, but we cannot accept the return of any product if you have not advised us in writing within 48 hours of receiving your em-trak product, or if it has been used and or damaged or if any of the package is incomplete. All em-trak products benefit from our three year global warranty. In the unlikely event of a problem, please contact our Customer Support department (24/7) at support@em-trak.com and one of our experts will work with you to resolve your issue or arrange the repair or replacement of your em-trak product. The warranty is invalidated if the product has been incorrectly used, damaged or tampered.

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B952 CLASS B | AIS TRANSCEIVER
INSTALLATION GUIDE

