

Raymarine AIS650 Class B Transceiver

Overview:

The AIS650 is a Class B Automatic Identification System (AIS) transceiver designed for small and non-SOLAS vessels. It enables vessels to transmit and receive AIS data, improving navigation safety and situational awareness.

Key Features:

- Class B AIS transceiver (transmit & receive) - Dual-channel AIS reception - Integrated GPS receiver - Silent mode capability - Compatible with NMEA0183, NMEA2000, and USB systems

Technical Specifications

Radio:

Frequency: 156–162 MHz Channels: AIS1 (161.975 MHz), AIS2 (162.025 MHz) Output power: 2W (typical Class B) Modulation: GMSK

GPS:

50-channel GPS receiver with RAIM support High accuracy positioning

Electrical

Power supply: 12 / 24 V DC Operating voltage: 9.6–31.2 V DC Power consumption: <3W

Interfaces

NMEA 0183 NMEA 2000 (SeaTalkNG) USB 2.0 VHF antenna and GPS antenna connections

Functions

Transmits vessel data including MMSI, position, speed, and course.

Receives AIS targets (Class A and Class B).

Displays data on connected chartplotters and radar systems.

Environmental

Operating temperature: -15°C to +55°C Storage: -20°C to +75°C Humidity: up to 93%

Physical

Compact marine-grade design Lightweight and durable

Conclusion

The AIS650 is a reliable Class B AIS transceiver providing essential vessel tracking and safety features. It is suitable for yachts and small commercial vessels requiring AIS functionality.