

Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

AIS Class-B (6-inch)

AIS Class-B (6-inch) (1). Main performance 1. Features It is a universal shipborne AIS equipment, navigation and ship data exchange with other ships and shore stations. This de...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category Marine Communication And Navigation Equipment

Standard ISO

Weight / Size MMSI no, vessel name, call sign, IMO number, ship type, The size of the ...

Certificate CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Marine Communication And Navigation Equipment	Model / SKU	AIS-Class-B-6-inch
Standard	ISO	Weight / Size	MMSI no, vessel name, call sign, IMO number, ship type, The size of the vessel, the GPS antenna position, Flag, etc.;
Certificate	CCS	Warranty	12 Months unless specified otherwise
Origin	China		

CONTENTS

- AIS Class-B (6-inch)
- Main unit :
- (1). Main performance
- AIS transmitter section :

AIS Class-B (6-inch)

(1). Main performance

1. Features

It is a universal shipborne AIS equipment, navigation and ship data exchange with other ships and shore stations.

This device complies with A.694 (17), IEC62287-1 2006-03 standard requirements.

Consists of transceiver unit, display control unit, VHF and GPS antennas and related accessories.

The transceiver unit comprises a VHF transmitter, two TDMA receiver,

An interface, communication processor, built-in GPS receiver.

2. Main information

AIS provided automatic exchange of navigational information with other ship or shore station each other to ensure the

safety of navigation and other ship or shore station.

2.1 Static Data

Call sign and ship name

MMSI (nine digit ID)

IMO number (if any)

Length and Beam

Type of Ship

Location of GPS antenna position on ship

2.2 Dynamic Data

Ship's position)

UTC (universal time coordinated)

COG (Course Over Ground

SOG (Speed Over Ground)

Heading

Navigation status (manual input data/code)

Rate of Turn (if any)

2.3 Voyage Data

Draught

Dangerous Cargo

Destination and ETA

2.4 Safety-related short message information

(2). Main function introduced

1. Automatic Identification System (AIS) function

Autonomous ship (sailing)moving, static and dynamic voyage data to send, receive and display.

Static data include: MMSI no, vessel name, call sign, IMO number, ship type,

The size of the vessel, the GPS antenna position, Flag, etc.;

Dynamic data include: latitude and longitude, speed, heading/course, turn rate, navigational status and time.

Navigation data include: ship's draft , type of dangerous cargo, port of destination and estimated time arrival.

Message send / receive and display (including Chinese Message)

2.Target ship Approaching alarm function

Closet distance setting

Target ship Approaching LED flashing (visual alarm) prompt

Target ship Approaching voice broadcast prompted (0.1-6.0 nautical miles can be set)

Target ship Approaching (audio alarm) sounding prompts (0.1-6.0 nautical miles can be set)

3.Target ship information display function

List of shows the target ship (range, azimuth and 9 ID)

Vector display the target ship (to select the range of 0.1 to 48 nautical miles)

Enlarged to show the target ship data

Detailed display of the target ship data

4.GPS navigation function

Ship's position, speed, heading, time, and date display.
Waypoints stored with the call.
Destination position, distance and estimated time arrival display.
The destination navigation arrived if course deviated will alarms and tips.
(3).Technical Specifications

1.

Main unit :

RF unit : 1 transmitter and 2 receivers
Frequency range: 156.025-162.025MHz
Communication mode: CSTDMA
Frequency tolerance: $\pm 1000\text{Hz}$
Display screen: FSTN 122 (W) \times 92 (H) mm (6.0 inches)
Power Supply : 12V DC or 24V DC
Operating Temperature: $-15\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}$
Dimensions: 235 (W) * 145 (H) * 70 (D) mm

2.

AIS transmitter section :

Carrier power: 33dBm $\pm 1.5\text{dB}$ (2W)
Modulation spectrum: -25dBw / - 60dBw
Modulation accuracy: $<3400\text{Hz}$ (bit 0,1)
 $2400\text{Hz} \pm 480\text{Hz}$ (bit 2,3)
 $2400\text{Hz} \pm 240\text{Hz}$ (Bit 4-199 or 00001111Bit format)
 $1740\text{Hz} \pm 175\text{Hz}$ (0101 bit format)
Power comparison time: transmit delay: 2083us (normal transmit a period of time)
Increase the time : $\leq 313\text{us}$
Decrease the time : $\leq 313\text{us}$
Transmit time duration : $\leq 323333\text{us}$
Spurious emission : -36dBm (9KHz-1GHz)
-30dBm (1GHz-4GHz)

3.AIS receiver section

Reference sensitivity:-107dBm (package error rate $\leq 20\%$)
High input tolerance :-77dBm (package error rate $\leq 2\%$)
Co-channel interference: 10dB (package error rate $\leq 20\%$)
Adjacent channel selectivity: 70dB (package error rate $\leq 20\%$)
Spurious response interference: 70dB (package error rate $\leq 20\%$)
Inter modulation response interference: 65dB (package error rate $\leq 20\%$)

Note: Specifications are subject to change without notice.