Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

AIS (Class-A)

ISO9001 Supplier

Class Certificate

Export Supply

AIS (Class-A) (1).Main performance 1.Characteristics 8800 is a universal ship bone AIS equipment, navigation and ship data information exchange with other ships and shore stati...

Key Highlights

Category	Marine Communication And Navigation Equipment
Standard	ISO
Weight / Size	MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS ...
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-A
Standard	ISO	Weight / Size	MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS antenna position, Flag, etc.;
Certificate	CCS	Warranty	12 Months unless specified otherwise
Origin	China		

CONTENTS

AIS (Class-A)

(1).Main performance

1.Characteristics
8800 is a universal ship bone AIS equipment, navigation and ship data information exchange with other ships and shore stations
This device complies with A.694 (17), IEC62287-1 2006-03 standard requirements.
8800 consists of transceiver unit, display control unit, VHF antenna and GPS antenna and related accessories
Transceiver unit consists of 1 VHF transmitter, 2 TDMA receiver,
A channel 70 DSC 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 to ensure the safety of navigation .
1)Static Data
Call Sign and Ship name
MMSI (9 digit ID)
IMO number (if any)
Length and Beam
Type of Ship
Location of GPS antenna position on ship
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)
3) Voyage data
Draught
Dangerous Cargo
Destination and ETA
4) Safety-related short message information

(2). Main Functions

1.Automatic Identification System (AIS) function
Own ship static , dynamic and voyage data, send, receive and display information
Static data include: MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS antenna position, Flag, etc.;
Dynamic Data include: latitude and longitude, speed, heading, turn rate, navigational status and time;
Navigation information including: draft, type of dangerous cargo, port of destination and estimated time of arrival
Message to send, receive and display (including Chinese Information)
2.Target ship approaching alarm function
Distance setting how far target approaching to own ship ,
Approaching to own ship , LED flashing and visual alarm prompt
Approaching to own ship Voice broadcasting tips (0.1-6.0 nm can be set)
Approaching to own ship audio alarm sounding alert (0.1-6.0 nautical miles can be set)
3.Target ship information display function
List of shows target ship (range, azimuth and 9 ID no.)
Vector diagram shows the target ship (0.1 to 48 nautical miles range selection)
Enlarged to show the target ship data information
To target ship data information in detail

4.GPS navigation function
Ship's position, speed, heading, time, and date display;
Waypoints stored with the call;
Display Port of destination and azimuth , range , estimated time of arrival
Navigation arrival to destination if course deviated will alarms and tips;

(3). Technical specifications

1.

Main unit :

RF unit: 1 transmitter / 3 receivers
Frequency range: 156.025-162.025MHz
Channel bandwidth: 25KHz or 12.5KHz
Frequency tolerance: ± 1000Hz
Display screen: FSTN122 (W) × 92 (H) mm (6.0 inches)
Power Supply : 12V DC or 24V DC
Operating Temperature: -15 ℃ ~ +55 ℃
Dimensions: 235 (W) * 145 (H) * 70 (D) mm

2.AIS transmitter section
Output power : 2W or 12.5W changeable
Modulation spectrum : <-25dBw / <-60dBw
Modulation accuracy : <3400Hz (bit 0,1)
2400Hz±480Hz（bit 2,3）
2400Hz ± 240Hz (bit 4-199 or 00001111 bit format)
1740Hz ± 175Hz (0101-bit format)
Power comparison time : transmit delay: 2083us (normal transmit a period of time)
Increase the time: ≤ 313us
Decrease the time: ≤ 313us
Continuous transmit time ：≤323333us
Spurious emissions :-36dBm (9KHz-1GHz)
-30dBm（1GHz-4GHz）
3.AIS receiver section
Reference sensitivity :-107dBm (package error rate ≤ 20%)
High input tolerance :-77dBm (package error rate ≤ 2%)
Co-channel interference : 10dB (package error rate ≤ 20%)
Adjacent channel selectivity : 70dB (package error rate ≤ 20%)
Spurious response to interference: 70dB (package error rate ≤ 20%)
Intermodulation response interference : 65dB (package error rate ≤ 20%)

Note: Specifications are subject to change without notice.