

Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

AIS (Class-A)

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...

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, 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		

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AIS (Class-A)



(1).Main performance

1.Characteristics

8800 is a universal ship 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: $\pm 1000\text{Hz}$** **Display screen: FSTN122 (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****Output power : 2W or 12.5W changeable****Modulation spectrum : $<-25\text{dBw} / <-60\text{dBw}$** **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 00001111 bit 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: $\leq 313\text{us}$** **Continuous transmit time : $\leq 323333\text{us}$** **Spurious emissions : -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 to interference: 70dB (package error rate $\leq 20\%$)****Intermodulation response interference : 65dB (package error rate $\leq 20\%$)****Note: Specifications are subject to change without notice.**