

# NAUTICAST **B**

## Class B - Automatic Identification System Transceiver

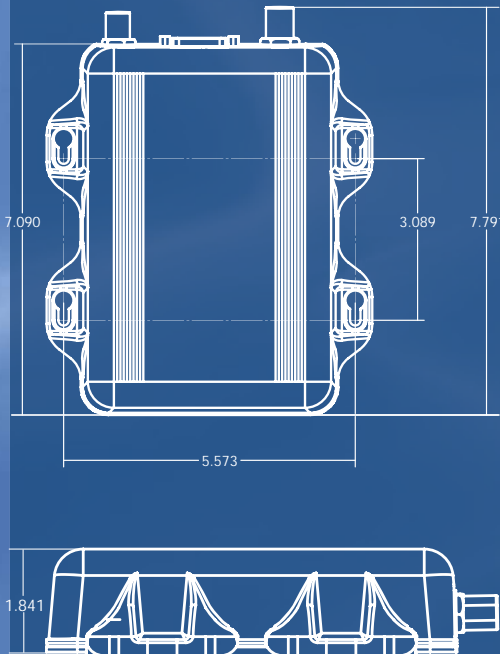
Product No.2680

Model: AIS-300



### *Class B Transceiver:*

- > Small in size
- > Plug and Play
- > Transmits and Receives
- > Water Resistant
- > Remote SRM Switch
- > GPS Receiver



The Nauticast-B transponder is a plug and play AIS solution. Enjoy the benefits of the AIS system knowing larger commercial vessels are aware of your position increasing your personal safety while navigating at sea.

Unlike receive only AIS devices which do not transmit vessel information to surrounding traffic, the Nauticast-B system allows you to virtually participate in neighboring vessels maneuvering activities for collision avoidance. Announce your identity, position, speed and course over ground to oncoming traffic allows for increased security that you will be seen in low visibility conditions.

Avoid not being seen because of extreme weather conditions or busy vessel traffic environments. Generate a safety distress message to surrounding AIS vessels, basestations, and SAR teams. All in all, it is a horizon expanding experience; especially in combination with an electronic chart system.



**ACR Electronics, Inc.**

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Avionics & Surveillance

ACR Electronics, Inc. is registered by UL to ISO 9001: 2000

Parameter	Value
Dimensions	7.8 x 6.22 x 1.84 in. (198 x 158 x 46.7 mm)
Weight	13.2 oz (375g)
Power	DC (9.6-15.6V) Average power consumption 4W Peak current rating 2A
GPS Receiver (AIS Internal)	IEC 61108-1 compliant
Electrical Interfaces	RS232 38.4kBaud bi-directional RS422 NMEA 38.4kBaud bi-directional
Connectors	VHF Antenna connector (UHF female bulkhead connector) GPS Antenna connector (TNC female bulkhead connector)
Cable – Data/Power	RS232 / RS422 / Data / Power (15-pin Connector) Typically, 1.5 meter DSUB
VHF Transceiver	Transmitter x 1 Receiver x 2 (One receiver time shared between AIS and DSC)
AIS1: 161.975 MHz AIS2: 162.025 MHz Output Power	Frequency: 156.025 to 162.025 MHz in 25 kHz steps 2 Watts (33 dBm ± 1.5 dB)
Channel Bandwidth	25kHz
Channel Step	25kHz
Modulation Modes	25kHz GMSK (AIS, TX and RX) 25kHz AFSK (DSC, RX only)
Bit rate	9600 b/s ± 50 ppm (GMSK) 1200 b/s ± 30 ppm (FSK)
RX Sensitivity	Sensitivity – 107dBm 25kHz (Message Error Rate 20%) Co-Channel 10dB Adjacent Channel 70dB IMD 65dB Blocking 84dB
Environmental	IEC 60945 Operating Temperature: -25°C to +55°C IEC 62287-1,5b, IP65 Protected
Indicators	Power, TX timeout, status, pre-set SRM sent or Silent Mode
Operator Controls	Optional pre-set safety related message (SRM) transmit button or Silent Mode -No Transmit (user Configured).

## FEATURES:

### ► Size it up!

The Nauticast's alluring measurements are 7.8" (D) x 6.2" (W) and its height is only 1.84 in. It's a lightweight at 13 oz, and won't take up much space mounted under the dash. Position Safety Switch (1" x 1") on your console for easy access in case of an accident.

### ► Plug & Play

Inventive technology at its best! Three sockets suffice to connect power, sensors and antennas and initial Transponder operation is up and running within minutes.

Plug & Play system includes: Class B AIS transponder, GPS antennas, data/power cables and remote Safety Message switch.

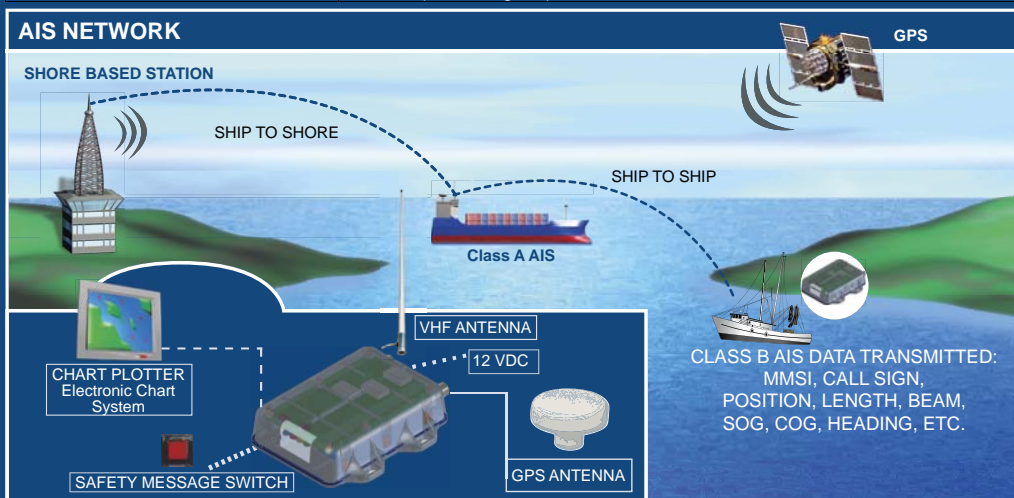
### ► Safety Relate Message / Stealth

The remote SRM button saves the precise coordinates of the incident and immediately generates a safety distress message to surrounding vessels.

Or configure the SRM switch to allow you to operate in stealth mode only receiving AIS data and not sharing for added security to avoid being noticed by pirating vessels.

Data cable directly interfaces with your chart plotter or laptop.

ACR AIS products undergo stringent quality testing and with thousands of AIS transponders out in the market, the Nauticast brand is a tried and tested system, which has already gained substantial market penetration in this young market.



#### Warnings:

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For over 50 years, ACR has built quality products knowing they are used to save lives. Please call or write for a complete catalogue of safety and survival products.



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