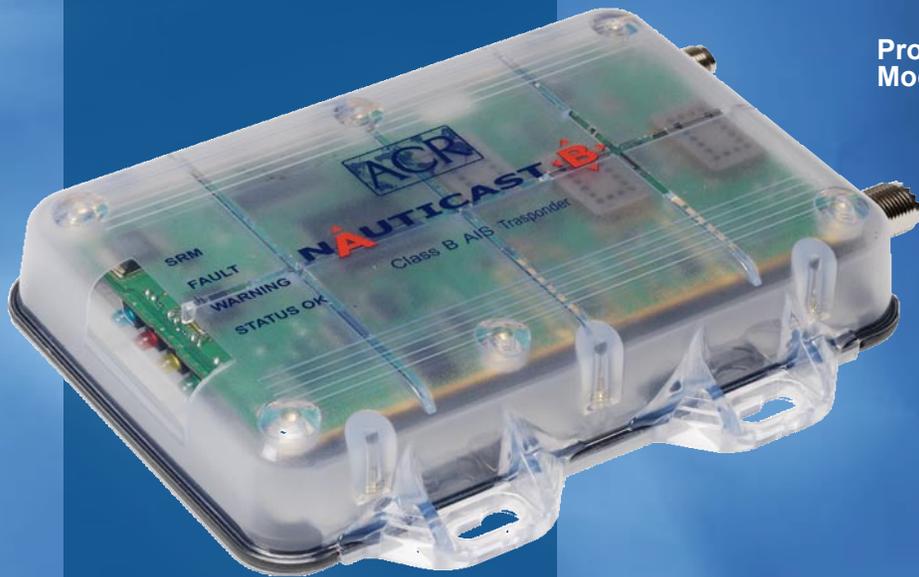


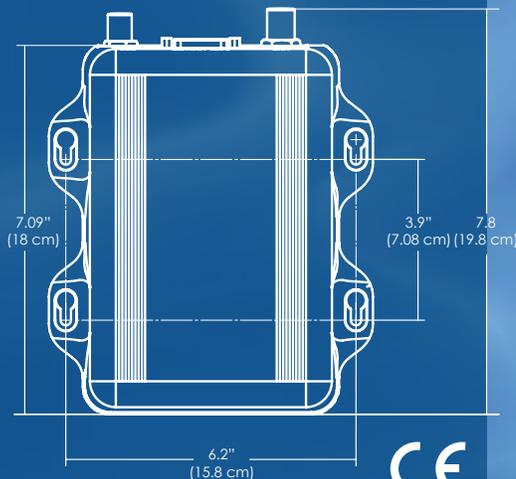
# NAUTICAST-B

## Class B-Automatic Identification System Transponder



Product No.: 2680  
Model No.: AIS-300

**Class B Transponder**  
**Small in Size**  
**Plug and Play**  
**Transmits and Receives**  
**Water Resistant**  
**Remote SRM Switch**  
**GPS Receiver**



CE  
0700



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 equipment, including vessels, base-stations, and possibly SAR teams. All in all, it is a horizon expanding experience; especially in combination with an electronic chart system.



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**COBHAM**  
Avionics & Surveillance

This device has not been authorized as required by the Rules of the FCC. This device is not and may not be offered for sale or lease, or sold or leased, until authorization is obtained.

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

## FEATURES

### Size it Up!

The Nauticast's alluring measurements are 7.8 x 6.2 x 1.84" (18 x 15.8 x 4.7 cm). It's a lightweight at 13.2 oz. (375 g) and won't take up much space mounted under the dash. Position the Safety Switch on your console for easy access in case of an accident

### Plug and 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 optional remote Safety Message switch

### Safety Related Message/Stealth

The remote SRM button saves the precise coordinates of the incident and immediately generates 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 detected 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 on the market, the Nauticast brand is a tried and tested system which has already gained substantial market penetration in this young market

### Warnings:

Although ACR strives for accuracy in all its publications, this material may contain errors or omissions, and is subject to change without prior notice. ACR shall not be made liable for any specific, indirect, incidental or consequential damages as a result of its use. ACR components may only be used in safety of life devices or systems, with the express written approval of ACR, as the failure of such components could cause failure of the Nauticast device or system. If these fail it is reasonable to assume that the safety of the user or other persons may be endangered.

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.

<b>Dimensions</b>	7.8 x 6.2 x 1.84" (18 x 15.8 x 4.7 cm)
<b>Weight</b>	13.2 oz. (375 g)
<b>Power</b>	DC (9.6-15.6V). Average power consumption 4W. Peak current rating 2A.
<b>GPS Receiver</b>	AIS Internal, IEC 61108-1 compliant
<b>Electrical Interfaces</b>	RS232 38.4kBaud Bidirectional
<b>Connectors</b>	VHF Antenna connector (UHF female bulkhead connector) GPS Antenna connector (TNC female bulkhead connector)
<b>Interface Cable</b>	15 pin DSUB connector with 4 leads: Data-RS232; Data-RS422; Remote switch; Power
<b>VHF Transceiver</b>	Transmitter x1 Receiver x 2 (one receiver time shared between AIS and DSC)
<b>AIS1 :161.975 MHz</b>	Frequency 156.025-162.025 MHz in 25kHz steps
<b>AIS2: 162.025 MHz</b>	Frequency 156.025-162.025 MHz in 25kHz steps
<b>Output Power</b>	2W (33dBm ± 1.5 dB)
<b>Channel Bandwidth</b>	25kHz
<b>Channel Step</b>	25kHz
<b>Modulation Modes</b>	25 kHz GMSK (AIS, TX and RX) 25 kHz AFSK (DSC, RX only)
<b>Bit Rate</b>	9600 b/s ± 50 ppm (GMSK) 1200 b/s ± 30 ppm (FSK)
<b>RX Sensitivity</b>	Sensitivity - 107 dBm 25kHz (message error rate 20%) Co-channel 10dB Adjacent Channel 70dB IMD 65dB Blocking 84dB
<b>Environmental</b>	IEC 60945, IP 67
<b>Operating Temperature</b>	-13° to 131°F (-25° to 55°C)
<b>Indicators</b>	Power, TX timeout, status, pre-set SRM sent or Silent Mode
<b>Operator Controls</b>	Optional pre-set safety related message (SRM) transmit button or Silent Mode (No transmit, user configured)

