

# AIS Class B Transponder CAMINO-108

# To Explore, and Be in Control!

## **Product Overview**

CAMINO-108 is AMEC's next generation class B AIS transponder allowing you to broadcast your data to other AIS equipped vessels, and receive their data by viewing on dedicated chart plotter or PC – the essential way to improve collision avoidance on the water.

CAMINO-108 is designed to deliver high performance AIS transponder solution. The optimized receive and transmit capability is now brought into a compact and robust housing which is less than half the size of its previous generation.

The dual-channel receivers enable AIS vessel monitoring of all AIS signals including class A, class B, AtoN, SART. Its NMEA2000, NMEA0183 and waterproof USB port ensure simple integration with chart plotters and PCs. Built-in SD card slot makes data logging of AIS data easier than ever.

## **Key Features**

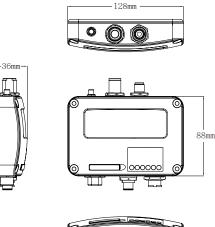
- Next generation high performance AIS Class B transponder
- NMEA2000, NMEA0183, and USB connectivity
- Optional Wi-Fi connectivity (CAMINO-108W)
- Support SD data logger card slot
- Built in high-sensitivity GPS receiver
- Optional silent mode (Tx off) operation
- Compact and stylish housing design
- Low power consumption, 12 / 24V DC input
- Supplied with AIS Viewer and Configuration software for PC



## Ordering Information

Model	Interfaces Supported				
	NEMA0183	NEMA2000	USB	SD card	Wi-Fi
CAMINO-108	•	•	•	•	
CAMINO-108W	•	•	•	•	٠

### DIMENSIONS





## **SPECIFICATIONS**

APPLICABLE STANDARDS					
IEC 62287-1 Ed. 2, 2010	IEC 61108-1 Ed. 1, 2003				
IEC 61162-1 Ed. 3, 2007	IEC 60945 Ed. 4, 2002				
IEC 61162-2 Ed. 1, 1998	ITU-R M.1371-4, 2010				
VHF TRANSCEIVER					
Frequency Range	156.025 MHz ~ 162.025 MHz				
Channel Bandwidth	25 KHz				
Modulation	GMSK / FM				
Data Rate	9,600 bps				
Number of AIS Transmitter	1				
Number of AIS Receiver	2 (one time-shared between AIS and DSC)				
Number of DSC Receiver	1 (time-shared between AIS and DSC)				
AIS Channel 1	CH 87B (161.975 MHz)				
AIS Channel 2	CH 88B (162.025 MHz)				
Tx Power Output	2 Watt (33 dBm ± 1.5 dB)				
Rx Sensitivity	< -107 dBm @ 20% PER				
Rx Message Format	AIS Class A & B messages				
DSC RECEIVER					
Modulation	1,300 Hz / 2,100 Hz FSK				

Data Rate Spurious Response Rejection Blocking

#### **GPS RECEIVER (integrated)**

**Receiving Channels** Accuracy Output Rate

#### ENVIRONMENTAL Þ

**Operating Conditions** Operating Temperature Waterproof

IEC 60945 "protected" category -15°C ~ +55°C (+5°F ~ +130°F) IPX2

 $\geq$  70 dB for signal @ -104 dBm; BER  $\leq$  1 %

 $\geqq$  84 dB for signal @ -104 dBm; BER  $\leqq$  1 %

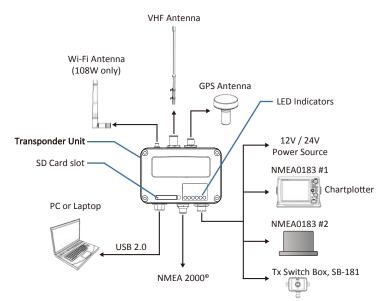
1,200 bps ± 30 ppm

IEC 61108-1 compliant

50 channels

1 Hz

## **CONNECTION DIAGRAM**



## LED INDICATION

Power (green)	System power on / off			
Error (red)	MMSI not set / BIIT error Receiving AIS data			
Rx (green)				
Tx/Silent (green/red)	Transmitting AIS data / Silent mode Accessing SD card WiFi traffic in active (CAMINO-108W only)			
SD (green)				
WiFi (green)				
CONNECTION INTER	FACE			
GPS Antenna Connector	TNC (Female)			
VHF Antenna Connector	PL-259 (Female)			
NMEA2000	Standard connector			
NMEA 0183 (RS-422)	Support two NMEA0183 interfaces			
	Baud rate configurable (default 38,400 bps)			
	Separate Tx/Rx baud rate			
	Standard IEC 61162-1 / IEC 61162-2 sentence			
Silent Mode Setting	Set by optional Tx Switch Box SB-181			
USB	Mini type, waterproof			
Wireless Connection	IEEE 802.11 b/g/n (CAMINO-108W only)			
POWER SUPPLY				
Supply Voltage	12V / 24V DC			
Power Consumption	Typically less than 3W average @ 12V DC			
PHYSICAL				
Width	128 mm (5.51 inch)			
Height	36 mm (1.97 inch)			
Depth	88 mm (7.87 inch) (exclude connector)			
Weight	250 g			
SOFTWARE TOOL				
AMEC AIS Configuration	PC configuration utility			
AMEC AIS Viewer	AIS Viewer for PC			

Note: Specifications are subject to change without prior notice.

AMEC AIS App

## The AIS Specialists

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## **Sales Contact**

For more information, please contact your local representative or Alltek Marine at sales@alltekmarine.com www.alltekmarine.com

#### Distributor/Dealer

AIS App for iOS & Android

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