

AIS Class B with Integrated Splitter CAMINO-108S



Product Overview

CAMINO-108S is the first fully CE certified AIS Class B with integrated splitter. For an eased installation, CAMINO-108S can share a single VHF antenna with your VHF radio.

Building on the solid basis of CAMINO-108 AIS class B, CAMINO-108S supports a variety of connection options from NMEA 0183, USB to NMEA 2000. Its improved housing provides more durability and IPX5 waterproof.

The built-in splitter features zero insertion loss on reception path and ultra low insertion loss on transmission path for optimized range of your VHF radio and AIS device. The fail-safe and self-test features of the splitter give users more safety by operation.

Key Features

- ▶ Globally certified AIS Class B transponder with integrated splitter
- ► Built-in high-sensitivity GPS receiver
- ▶ Universal connectivity via NMEA2000, NMEA0183, and USB
- Durable housing design with IPX5 waterproof
- ▶ Optional silent mode (Tx off) operation
- ▶ High performance splitter with zero insertion loss on reception path
- ► Fail-safe function for uninterrupted VHF/DSC radio operation
- ► Self-test signalizing possible antenna issue
- ► FM antenna interface

Applications

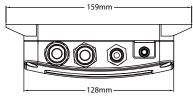


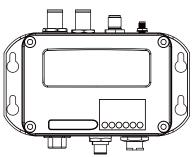


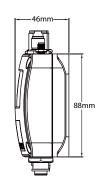




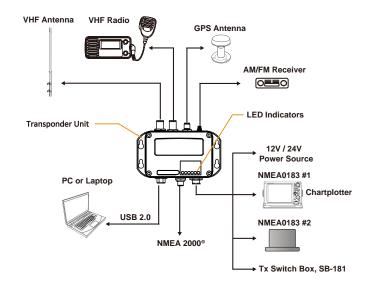
DIMENSIONS







CONNECTION DIAGRAM



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

156.025 MHz ~ 162.025 MHz Frequency Range Channel Bandwidth 25 KHz GMSK (FM Modulation 9,600 bps Data Rate Number of AIS Transmitter Number of AIS Receiver 2 (one time-shared between AIS and DSC) Number of DSC Receiver (time-shared between AIS and DSC) CH 87B (161.975 MHz) AIS Channel 1 AIS Channel 2 CH 88B (162.025 MHz) Tx Power Output 2 Watt (33 dBm ± 1.5 dB)

< -107 dBm @ 20% PER

AIS Class A & B messages

Rx Message Format DSC RECEIVER

Rx Sensitivity

Modulation 1,300 Hz / 2,100 Hz FSK Data Rate 1,200 bps \pm 30 ppm

Spurious Response Rejection \geq 70 dB for signal @ -104 dBm; BER \leq 1 % Blocking \geq 84 dB for signal @ -104 dBm; BER \leq 1 %

GPS RECEIVER (integrated)

Receiving Channels 50 channels
Accuracy IEC 61108-1 compliant
Output Rate 1 Hz

ENVIRONMENTAL

Operating Conditions IEC 60945 "protected" category Operating Temperature $-15^{\circ}\text{C} \sim +55^{\circ}\text{C} \ (+5^{\circ}\text{F} \sim +130^{\circ}\text{F})$

Waterproof IPX5

Note: Specifications are subject to change without prior notice.

LED INDICATION

Warning (red)

Power (green) System power on / off

Error (red) MMSI not set / BIIT error

Rx (green) Receiving AIS data

Tx/Silent (green/orange) Transmitting AIS data / Silent mode

VHF Tx (green) Transmitting VHF radio

Possible VHF antenna issue

CONNECTION INTERFACE

GPS Antenna Connector TNC (Female) VHF Antenna Conpector SO-239 (Female) NMEA2000 Standard connector Support two NMEA0183 interfaces NMEA 0183 (RS-422) Baud rate configurable (default 38,400 bps) Separate Tx/Rx baud rate Standard IEC 61162-1 / IEC 61162-2 sentences Set by optional Tx Switch Box SB-181 Silent Mode Setting Mini type, waterproof USB FM Radio SMA (Female)

RF PERFORMANCE

AIS & VHF Radio Frequency Range 156.025 MHz~162.025 MHz Insertion loss, AIS Receive path Typical 0dB
Insertion loss, VHF Receive path Typical 0dB
Insertion loss, AIS Transmit path Typical 1dB
Insertion loss, VHF Transmit path Typical 1dB

POWER SUPPLY

Supply Voltage 12V / 24V DC

Power Consumption Typically less than 3W average @ 12V DC

PHYSICAL

Dimension: 159x46x88mm (WxHxD) (exclude connector)
Weight 360 g









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