**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
- 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
- Very stable Wi-Fi connection (CAMINO-108W only)
- Works in Access Point or Client mode (CAMINO-108W only)
- 10 simultaneous device connections as Access Point (CAMINO-108W only)
- User-friendly interface for easy and intuitive configuration (CAMINO-108W only)

**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>NEMA0183</th>
<th>NEMA2000</th>
<th>USB</th>
<th>SD card</th>
<th>Wi-Fi</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMINO-108</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAMINO-108W</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**Class B with Wi-Fi**

CAMINO-108W
**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: 1,200 bps ± 30 ppm
- Spurious Response Rejection: ≥ 70 dB for signal @ -104 dBm; BER ≤ 1 %
- Blocking: ≥ 84 dB for signal @ -104 dBm; BER ≤ 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°C – +55°C (+5°F – +130°F)
- Waterproof: IPX2

**LED INDICATION**

- Power (green): System power on / off
- Error (red): MMSI not set / BIT error
- Rx (green): Receiving AIS data
- Tx/Silent (green/orange): Transmitting AIS data / Silent mode
- SD (green): Accessing SD card
- WiFi (green): WiFi traffic in active (CAMINO-108W only)

**CONNECTION INTERFACE**

- GPS Antenna Connector: TNC (Female)
- VHF Antenna Connector: SO-239 (Female)
- NMEA2000: Standard connector
- NMEA 0183 (RS-422): Support two NMEA0183 interfaces
- Silent Mode Setting: Separate Tx/Rx baud rate
- USB: Mini type, waterproof
- Wireless Security: WPA2-AES for Access Point or Client Mode
- Wireless Connection: IEEE 802.11 b/g/n for Access Point or Client Mode (CAMINO-108W only)

**POWER SUPPLY**

- Supply Voltage: 12V / 24V DC
- Power Consumption: Typically less than 3W average @ 12V DC

**PHYSICAL**

- Width: 128 mm (4.99 inch)
- Height: 36 mm (1.40 inch)
- Depth: 88 mm (3.43 inch) (exclude connector)
- Weight: 250 g

**SOFTWARE TOOL**

AMEC AIS Configuration, AMEC AIS Viewer, AMEC AIS App

---

**DIMENSIONS**

**CONNECTION DIAGRAM**

**LED Indicators**

**POWER SOURCE**

**Chartplotter**

**NMEA0183 #1**

**NMEA0183 #2**

**Tx Switch Box, SB-181**

---

**The AIS Specialists**

Alltek Marine Electronics Corporation

14F-2, No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161, Taiwan

Tel: +886 2 8691 8568 Fax: +886 2 8691 9569

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

www.alltekmarine.com

---

Note: Specifications are subject to change without prior notice.