

A new line of NMEA 2000® certified products with integrated wireless networking



A **Smarter** way to build and manage your NMEA 2000 network!

With SmartBoat, you are no longer limited to single-function devices that require additional equipment for configuration and management.

Configure exactly the sensors and devices you need and simplify your network with advanced connectivity features.

- **Cost Effective:** A single SmartBoat unit can perform the tasks of multiple single-purpose devices.
- **Easy to Manage:** Configure your network with any computer or mobile device – no additional equipment or software is required.
- **Flexible:** Support for multiple NMEA 2000 busses and gateways for NMEA 0183® and SAE J1939.
- **Ready for the future:** New features can be added through software updates and USB expansion.

Features at a Glance



SUPPORTS MANY SENSORS AND DEVICES

Resistive, Current Loop, Voltage, Switch, Run Detector, Thermistor, Thermocouple, and Relay Control.



DESIGNED FOR HARSH MARINE ENVIRONMENT

Rugged, molded ABS IP66 rated enclosure with O-ring seals. Pluggable connector blocks and a flexible mounting interface.



FULLY ISOLATED BUS INTERFACES

NMEA 2000, NMEA 0183, and J1939 hardware interfaces are fully isolated and protected.



WIRELESS CAPABILITY

Every SmartBoat unit has built-in wireless networking. Works with existing networks, or build a complete Wi-Fi network using only SmartBoat units.



BROWSER-BASED CONFIGURATION

Configure and manage your devices and network with any computer or mobile device wirelessly or remotely. SmartView™ provides a comprehensive view of your system.



SIMPLIFIED ADMINISTRATION

Set up, back up, or clone a SmartBoat unit and manage your system with no additional equipment or software required.



ADVANCED MULTI-NETWORK SUPPORT

NMEA 2000 bridging between physical networks **or wirelessly**. SmartFilter™ provides single click whitelist/blacklist filtering at the bus, device, or PGN level.



NMEA 0183 and SAE J1939 GATEWAYS

Connect legacy devices and bridge engine data to the NMEA 2000 bus.

Key Specifications

PARAMETER	VALUE	COMMENT
Operating Voltage	9 to 32Vdc	NMEA 2000® Interface
Input Current	475mA (max.)	From NMEA 2000 Interface
Load Equivalence Number	10	NMEA 2000 1 LEN = 50 mA, @ supply voltage of 9V
Isolation	1,500Vdc - Power Input, 2,500Vrms - Signals	
Reverse Voltage Protection	Yes	Indefinitely
Load Dump Protection	Yes	
Size	8.7" x 5.7" x 2.4" (221mm x 145mm x 61mm)	Including mounting flanges
Weight	675gm (1.5 lb.)	Maximum for all models
IEC 60945 Classification	Exposed	
Degree of Protection	IP66	IEC 60529
Operating Temperature	-30°C to +60°C (-22°F to +130°F)	
Storage Temperature	-40°C to +70°C (-40°F to +158°F)	
Electromagnetic Emission	IEC/EN 61000-2/3	Conducted/Radiated Emission
Electromagnetic Immunity	IEC 61000-4	Conducted, Radiated, Supply, and ESD
Flammability Rating	UL94V-0	Printed Circuit Board
	UL94-5VA	Enclosure
Compass Interference	None	EN 60945:2002
Certifications	NMEA 2000 Standard	v1.200, Level A
	Maritime Navigation and Radio Communication Equipment & Systems	IEC 61162-3 IEC 60945
Manufacturing	ANSI/IPC-A-610C class 2	
RoHS/REACH Compliance	Yes	

SmartBoat Models

SMARTBOAT FEATURES	MODELS				
	LTM-110	LTM-201	LTM-210	LTM-301	LTM-310
Wireless network bridging with SmartFilter™	√	√	√	√	√
NMEA network monitoring with SmartView™	√	√	√	√	√
Advanced multi-network support	√		√		√
PROGRAMMABLE SENSOR INPUTS (Total⁽¹⁾)	⁽¹⁾ Maximum, inputs are shared in a unit				
Thermistor (NTC)		8	8	4	4
Current Loop (2, 3, or 4 wire interface) ⁽¹⁾		8	8		
Resistive Senders (US or European) ⁽¹⁾		8	8		
Binary Switch (0, 1, 2 EOL resistors) ⁽¹⁾		8	8	4	4
Voltage (0-75VDC) ⁽¹⁾				4	4
FIXED SENSOR INPUTS/OUTPUTS	⁽²⁾ Dedicated, all can be used at same time				
Thermocouples (J,K,T,E) ⁽²⁾		2	2		
Relays (10A Resistive, 5A Inductive) ⁽²⁾				4	4
Run Detector (9 - 240VDC/VAC rms) ⁽²⁾				4	4
EXTERNAL CONNECTORS					
Primary NMEA 2000	√	√	√	√	√
USB 2.0 (2 ports), Ethernet (RJ-45)	√		√		√
DB9 (J1939/secondary NMEA 2000, NMEA 0183 RS-4xx)	√		√		√
ACCESSORIES SUPPORTED					
Cellular Modem – Availability TBD	√		√		√
Adapter Cable (DB9 to N2K-secondary/J1939 and N0183)	√		√		√