

N-NA04-0002

NAVIOP offers a wide range of products that can be used stand-alone, to make limited checks or to show small size boats' data, or that can be included within wider configurations for complete control and monitoring systems.

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Please contact our official dealer for your Country to choose the most suitable configuration for your project.

Official Dealer:  
ACSONMARINE S.r.l.  
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## T-BOX



**The T-BOX PLC** is designed specifically for use in marine environments. Its fully waterproof die-cast aluminium enclosure has excellent thermal transfer properties.

The product can support the most widely used communication standards.

**Up to 4 CANBUS ports** (one with Power Supply), 3 communication ports configurable as RS232/422/485 and 10/100Mbit Ethernet port guarantee the possibility to interface with almost all board systems. All communication ports are electrically isolated.

**More than 50 communication protocols implemented** (engines, air conditioning, generators, battery chargers, entertainment systems, digital switching systems, etc.) and bridge functionality between different communication protocols with NAVIOP monitoring and control software onboard.

**Powerful and intuitive programming** with the CodeSys development tool based on IEC 61131-3.

**Available features** (depending on the model):

- Data acquisition and transfer: collected data can be transferred via the Ethernet interface.
- Data log and black box: the data log can be downloaded locally or remotely using the Ethernet port.
- Alarm management and history: the alarms and the alarm history list can be saved and downloaded via the Ethernet interface.
- Web server: the collected data can be published on web pages and displayed by the most common browsers. Log data can be accessed via FTP or sent via e-mail.

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## T-BOX

### Memory

Memory: 128MB DDRAM  
User Memory: 64MB internal flash disk

### Communication ports

Port 1: Ethernet 10/100 Mbit  
Port 2: CAN  
Port 3: RS-232/422/485  
Port 4: CAN  
Port 5: CAN  
Port 6: RS-232/422/485  
Port 7: CAN  
Port 8: RS-232/422/485  
Connectors: M12, 8 contacts connector (type LUMBERG PG9 RSHL 8/S 5,5)

### Controller

CPU: MIPS 200Mhz

### Ratings

Power supply voltage: 18-32 VDC  
Current consumption: Max 1A at 24 Vdc

### Environmental conditions

Operational temperature: 0 ÷ 50 °C  
Storage temperature: -20 ÷ +70°C  
Operative and storage humidity (RH%): 5 ÷ 85 % RH  
Protection class: IP67 (front), IP66 (back)

### Dimensions

Weight: Approx. 1,9 kg

### Housing

Mechanical dimensions (max): 192x132x55 mm

### Approvals

CE: EN 61000-6-4, EN 61000-6-2 for installation in industrial environments  
In progress  
DNV: Type of certification for installation in naval environments in compliance with the RINA TYPE APPROVAL  
RINA:

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