

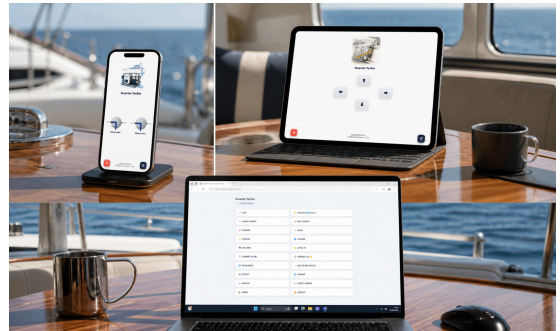


SMART YACHT PRODUCT

Smarter.Yachts Node

One system. Three layers. Full control.

Embedded control hardware, an intelligent server layer and a browser-based app - unified into one scalable marine control system.



THREE INTEGRATED LAYERS

01

Hardware

ESP32-S3 based switching and monitoring for lights, pumps, compressors, hydraulics and complex onboard equipment.

02

Server

Embedded coordination, configuration, diagnostics and real-time communication - without external dependencies.

03

Client

Responsive browser interface and installable PWA for iOS, Android and Windows devices.

Reliable control at the core.

The IoT control unit uses a robust ESP32 architecture for deterministic, real-time switching and monitoring of onboard systems.



CORE SPECIFICATIONS

PROCESSOR	ESP32-S3, 240 MHz	CONNECTIVITY	Wi-Fi AP / Client, 2.4 GHz
MEMORY	8 MB Flash	STORAGE	microSD up to 32 GB, HC
DISPLAY	IPS 1.14 inch color, 135 x 240 px	DIMENSIONS	72 x 80 x 33.4 mm
RELAY OUTPUTS	4	INSTALLATION	DIN rail
DIGITAL INPUTS	8	IP RATING	IP20 - protected enclosure required
OPERATING VOLTAGE	6-32 V DC	PLATFORM	Based on CE-marked M5Stamp PLC

SWITCHING AND APPLICATIONS

5 A DC / 28 V and 5 A AC / 250 V per channel (NO / NC). Reduced rating applies to inductive loads such as motors and pumps.

- Lighting and pumps
- Compressors and hydraulic systems
- Gangways, tenderlifts and other complex equipment

Control logic and system orchestration.

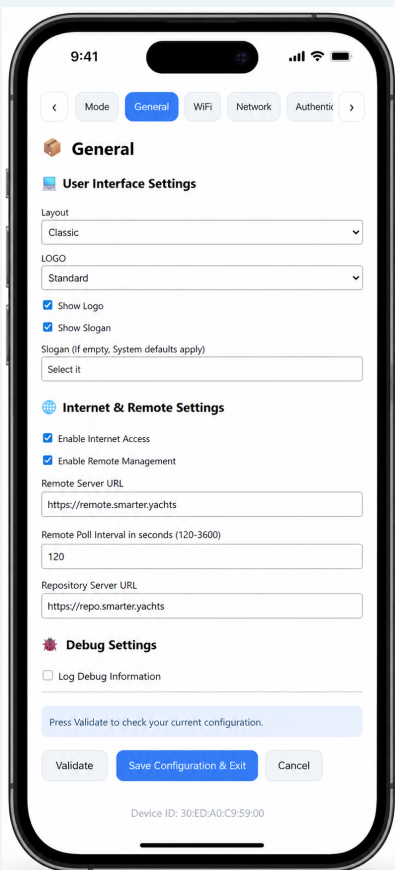
The server layer runs directly on the embedded hardware. It connects multiple devices and acts as the central intelligence of the system - managing configuration, coordination and real-time communication without external dependencies.

It creates consistent behavior across connected subsystems and provides a unified control environment for onboard equipment.

SERVER CAPABILITIES

- Asynchronous web server for parallel control
- Multi-device orchestration - up to five devices per app
- Predefined configurations for marine use cases
- Integrated system configuration editor
- Role-based access for Guest, Crew and Admin
- Logging, diagnostics and system health monitoring
- Remote firmware and resource updates
- Custom logos, themes and branding

One embedded intelligence layer for unified operation of multiple onboard subsystems.

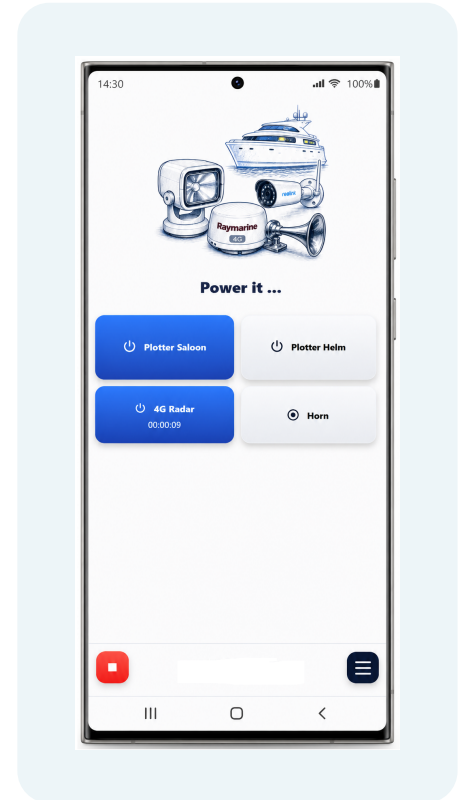


Simple interface. Full control.

The client is delivered as a responsive web app and can be installed as a Progressive Web App (PWA). It provides an app-like experience across mobile and desktop devices without app-store dependency.

CLIENT CAPABILITIES

- Compatible with iOS, Android and Windows
- Real-time control via HTTP, JSON and WebSockets
- Responsive, mobile-first design
- Role-based interface and access control
- Custom branding and themes for charter companies
- Multi-device navigation and integrated safety controls
- Installable as a Progressive Web App on mobile devices



CONTROL YOUR YACHT WITH ONE APP.

Discuss your installation with us.

Smarter.Yachts Node is designed for new builds and refits - from one controlled device to a scalable onboard system.

smarter.yachts/contact.php



[VIEW PRODUCT ONLINE](#)