



Propel With Confidence:

Explore Our Marine-grade Propulsion Solutions

Ships rely on their propulsion control systems to oversee unmanned propulsion machinery throughout different sections, including the bridge, control room, and engine room. These control systems play a critical part in the efficient functioning and monitoring of propulsion systems, vital for safe navigation and performance optimization.

System Requirements

To meet the demands of propulsion control systems, several critical system requirements must be addressed. First and foremost, the system needs reliable Ethernet switches that are certified for marine applications to ensure uninterrupted communication across different parts of the vessel. Additionally, considering the harsh conditions at sea, the propulsion control system needs robust products that can endure extreme temperatures, humidity, and vibration. Continuous and reliable communication requires a system that guarantees seamless data transmission and connectivity.

Why Moxa

Moxa offers a range of solutions tailored to meet the stringent requirements of marine-grade propulsion control systems. Our Ethernet switches, such as the [EDS-408A Series](#), are certified by reputable classification societies such as DNV, ABS, LR, and NK. The adherence to stringent marine standards guarantees system reliability and performance in maritime environments, giving ship operators peace of mind. Furthermore, Moxa's [MPC-3120W Series](#) provides all-in-one HMI displays, offering intuitive control interfaces for propulsion system monitoring and operation. These displays are designed to withstand the harsh conditions of maritime environments, providing operators with clear and reliable visual feedback for effective system management.

One of the key features of Moxa's solutions is our Turbo Ring technology, which ensures fast recovery times of under 20 ms. This technology enhances system reliability by providing redundancy and minimizing downtime in the event of network failures, critical for maintaining continuous propulsion system operation and ensuring vessel safety. With Moxa's marine-grade propulsion solutions, ship operators can confidently propel their vessels, knowing they have reliable, robust, and resilient systems supporting their critical operations.

