

MARINE PANEL PC

VESSEL ENERGY MONITORING

“ The key to us meeting the customer’s exact specifications was the ability of our technical services team to make firmware modifications and integrate components in-house, all while reducing lead times. ”

Account Manager,
Captec



The solution is for a diesel power specialist operating across the offshore and marine industries, with offices in both the UK and Australasia. The customer has a team of over 40 engineers and is focused on providing innovative support, repair and refurbishments as a cost effective rival to OEMs. The company specialises in reducing the energy consumption and carbon footprint of ships through real-time engine management data.

REQUIREMENTS & ISSUES

- A platform designed to a specific form factor for integration on the bridge of ships to monitor engine performance and energy consumption
- Ruggedisation of computer platforms to withstand the shock and vibration rigours of marine environments
- PC display must be capable of dimming to absolute zero to negate interference with navigation systems during night operation
- Management of power spikes prevalent in ship deployments
- Platforms need to be capable of running customer specific software
- Reduced lead times to support a significantly fast roll-out

THE SOLUTION

- ▶ Captec developed a 12-inch touchscreen panel PC for bulkhead mounting on the bridge of ships
- ▶ Panel PCs engineered with an IP65 front panel to provide protection in marine environments
- ▶ Technical services team conducted firmware modifications to enable the platform to be dimmable to absolute zero
- ▶ Integration of a UPS onto the panel PC to protect against power spikes, reducing platform downtime
- ▶ Powerful Intel Core i5 processors to run the customer's fuel monitoring and management software
- ▶ Captec sourced components individually for integration in-house, contributing to the reduction of lead times by half



THE OUTCOME

- ▶ Customer's lead times reduced significantly, at a rate of 50 percent
- ▶ The customer can supply a platform optimised for longevity and tested for reliability
- ▶ Panel PCs enable the customer to log, process and distribute real time data to inform mission critical decisions
- ▶ The customer has successfully created a product that enables ships to preserve energy, reduce carbon footprint and ultimately save money



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