

# MARINE APPLICATIONS 3D SONAR IMAGING COMPUTERS

“ We took an existing prototype and applied our design and engineering expertise to develop a solution that fully meets application needs. These abilities enabled us to deliver this project successfully. ”

Product Manager,  
Captec

The Solution is for an international designer and manufacturer of subsea technologies. The customer has built a reputation for delivering of top-of-the-range equipment and around the clock technical and after-sales support. With a team of specialists dedicated to developing the most up-to-date and innovative solutions, the customer aims to shape the future of subsea operations.



## REQUIREMENTS & ISSUES

- The project required the development and improvement of an existing prototype
- The customer's application specific design criteria must be fully satisfied
- Longevity of supply and extended life are crucial to the application
- Reduce subsystem power supplies while reducing cable runs
- Computers must be protected in hostile marine environments
- Fast, reliable data integration and high quality on-screen rendering

## THE SOLUTION

- ▶ A bespoke designed 19" rackmountable 3U PC
- ▶ Captec applied its specialist engineering abilities to fully meet design specifications
- ▶ Longevity of supply and extended life achieved through obsolescence management and expert component selection
- ▶ Platforms act as a single connection point with sonar peripherals, reducing subsystem power devices as well as cable runs
- ▶ Robust design, dust filters and tested in-house for thermal emissions to offer protection in marine environments
- ▶ Highest specification processors and graphics cards enable fast data transmission and enhanced 3D image quality



## THE OUTCOME

- ▶ Competent design of an existing platform to meet application requirements
- ▶ Platforms suitable for installation in a range of environments and applications
- ▶ Computers successfully deployed to support and enhance the imaging and data processing abilities of subsea sonar surveyors
- ▶ Computers compatible for usage with the customer's 3D acoustic imaging and GPS supported positioning platforms
- ▶ Captec's engineering capabilities and product implementation created customer confidence, leading to repeat orders



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