



ROV SUBSEA CONTROL CUSTOM 2U COMPUTERS

“ Our customer was experiencing shock and vibration challenges due to the extreme demands of the application. Shipping computers worldwide was also a cumbersome task that often resulted in computer failure. Our design and engineering experts overcame these challenges to provide a complete and reliable solution. ”

Joe Phelps,
Senior Sales & Marketing Manager,
Captec Americas



THE CUSTOMER

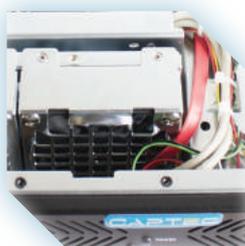
A manufacturer of work-class remotely operated vehicles (ROV's) and manipulator arms, with a core philosophy of continuous improvement both in reliability and cost-efficiency. Its customers benefit from equipment optimized for operational performance and ease of maintenance, which increases revenue and decreases support costs. Due to mobile deployment in harsh conditions, robust, high-performance and compact computers play an integral part in improving the reliability and functionality of the customer's ROV subsea control application.

THE CHALLENGES

- Design and supply of a protected, compact industrial computing platform with the capacity to house the required more reliably than a commercial alternative.
- Protect internal components from heavy shock and vibration caused by frequent transportation to application sites.
- High-end imaging support for maximum performance.
- Improve accessibility and airflow while reducing cabling.
- Meet custom I/O requirements to support optimized computing performance.

THE SOLUTION

- ▶ Design of a custom, ruggedized 2U industrial computer manufactured and engineered to house all the customer's technology requirements
- ▶ Heavy-duty, cold rolled steel chassis provides a robust foundation of protection to internal components
- ▶ Specification of non-moving parts, supported by custom-designed brackets, protects all internal components from shock and vibration damage
- ▶ A high-end Geforce graphics card delivers the image quality required to run the customer's application
- ▶ PSU engineering modifications remove excess cabling and improve ease of access
- ▶ Custom I/O requirements met and integrated, including HD audio kit for an improved operator experience



THE OUTCOME

- ▶ Confidence in a specialist supplier capable of delivering reliable platforms that consistently outperform and outlast commercial alternatives
- ▶ A custom computing platform capable of maximum performance in the presence of extreme shock and vibration
- ▶ Custom testing including GPU analysis to ensure maximum performance and reliability in the field

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