2U Rackmount Industrial Server

Offshore Rig Master Control System



Captec supplied fully configured 2U industrial rackmount computers for offshore rig supervisory monitoring and control, integrating specialist I/O hardware, optional automated switchover and protection against dust and grease, with configuration control supporting long-term supply.

The Customer

The customer is a leading global oil services company providing engineering and construction services, technologies and field-life support to the oil and gas sector. The customer's supervisory monitoring and control systems operate in demanding offshore environments, where reliable computing and consistency across deployments are essential.



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The Challenge

- Provide reliable computing for offshore supervisory monitoring and control in rig environments exposed to dust and grease
- Fit short-depth 2U computers into varied cabinet installations with limited space, while retaining expansion capacity for specialist PCI I/O cards
- Support redundant operation with automatic switchover to minimize operational interruptions and ensure availability
- Maintain consistent system configurations and continuity of supply throughout the equipment's operational life, supporting repeat deployments across offshore installations around the world

The Solution

- Configured short-depth 2U industrial rackmount computers with optional watchdog-controlled switchover for redundant operation
- Incorporated industrial air filtration and positive chassis pressurization to limit dust and grease ingress
- Specialist third-party PCI I/O cards were installed, configured and tested before delivery
- Applied configuration control and obsolescence management supported consistent builds and long-term supply
- Incorporated the customer's installation and configuration manual into Captec's ISO 9001 procedures to support standardized system builds





The Outcome

- The computers demonstrated high reliability in offshore service, supporting dependable supervisory monitoring and control in demanding operating conditions
- The customer received fully integrated and tested systems, with Captec taking responsibility for the specialist I/O integration before delivery, supporting efficient delivery and commissioning
- Supply of computers, KVMs and industrial displays simplified procurement, with the customer reporting savings in time and money and less effort managing the supply chain



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