



# Blow Out Prevention Computer

## Emergency control for Oil & Gas wells



“Using our design and compliance expertise, Captec developed a computing platform that met the customer’s exact functionality requirements, while securing optimal performance, balanced with maximum reliability.”

**Key Account Manager,  
Captec**



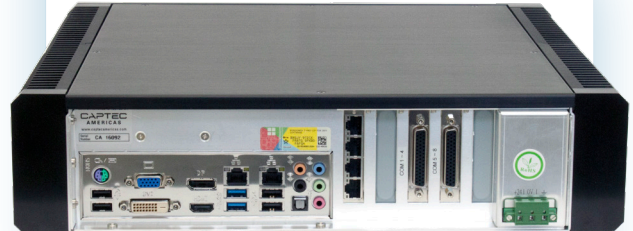
Our customer is an international supplier of mission-critical equipment for the oil and gas industry, deploying their technologies across the spectrum of energy activities, including offshore, pipeline and petrochemical. The combination of fully functional and certified custom 2U computing platforms is integral to run the customer’s blow out prevention (BOP) software.

### Requirements & Issues

- ▶ A computing platform customised to meet the exact requirements of the customer’s BOP safety control and predictive analysis application
- ▶ Ability to withstand shock and vibration due to deployment in offshore control rooms on oil rigs
- ▶ Powerful computing to run predictive analysis software reliably and optimally for accurate and rapid decision making
- ▶ Flexibility in mounting to deliver both desk and rack orientation as required
- ▶ Optimised expandability to meet functionality requirements

## The Solution

- Design and development of a custom 2U computing platform engineered for optimal reliability
- Robust chassis and rigorous testing ensures the platform can withstand heavy shock and vibration in an offshore deployment
- Captec designed the platform to pass stringent EMC requirements and robustly operate in a wide temperature range
- Platform supplied with a custom rackmounting kit to meet the customer's orientation requirements
- Specification of Intel processors for optimised power and performance
- Integration of 4 isolated ports and an Intel LAN card to deliver enhanced I/O to meet the customer's functionality requirements



## The Outcome

- The customer benefits from a computing platform engineered and optimised for high reliability
- Improved accuracy and speed of BOP decision making
- Enhanced I/O supports increased functionality
- Optimised longevity secures the continuity of the application for an extended lifespan. Mitigating typical risks of IT equipment obsolescence and preserving software continuity



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### EMEA Office

7 Whittle Avenue, Fareham,  
Hants, PO15 5SH, UK

- +44 (0)1489 866 066
- [sales@uk.captec-group.com](mailto:sales@uk.captec-group.com)

### North America Office

15 Saltsman Dr. Cambridge, ON.  
N3H 4R7, Canada

- +1 (519) 650 4000
- [sales@ca.captec-group.com](mailto:sales@ca.captec-group.com)