

SPECIALIST COMPUTING FOR MISSION-CRITICAL OIL AND GAS APPLICATIONS

SUPPORTED APPLICATIONS

- ▶ Seismic exploration
- ▶ Offshore surveying
- ▶ Measurement and control
- ▶ Liquefied natural gas exploration
- ▶ ROV control
- ▶ Solar and wind power delivery
- ▶ SCADA
- ▶ Simulation
- ▶ Bridge control
- ▶ Blow out prevention
- ▶ Oilfield satellite communication

At Captec, we design and manufacture specialist computing platforms engineered to meet the exact requirements of any application – irrespective of complexity or environmental demands.

We supply computing systems into tier one system integrators within the oil and gas industry. So we understand the need for high reliability when systems are deployed in remote and challenging environments. With over three decades of experience, we are a tried, tested and trusted hardware partner, allowing you to outsource risk, complexity and resource.

From build to order to bespoke platforms, we configure or design to meet exact performance and budgetary requirements. We gain a complete understanding of your application and specify using best-of-breed technologies while ensuring your through life costs are minimised. This is all achieved while working within a mature ISO 9001 quality management framework.



Specialist computing:

- ▶ IP-rated and fanless solutions
- ▶ Shock and vibration protection
- ▶ Rack design, integration and validation
- ▶ Full-height, half-height, mobile and static racks
- ▶ Compliance and certification management
- ▶ Optimised longevity
- ▶ Continuity of supply with change control and obsolescence management
- ▶ Industrial communications connectivity for legacy and modern interfaces
- ▶ Experience with demanding EMC requirements including EN 60945

Rack design and integration

We specialise in designing, developing and validating custom rack solutions that meet the size, weight and power demands of the energy sector.

From full-height, fully integrated racks through to deployable mobile solutions, we optimise and test for maximum reliability, performance and longevity. With established manufacturing processes and lean production flowlines, we provide fully scalable solutions, enabling our customers to entrust us with their high volume projects.

Case study: Distributed acoustic computer

This rugged 4U industrial rackmount server has been engineered from the ground up to support distributed acoustic systems performing analogue data acquisition and processing in the oil and gas industry

To support compatibility with 24/7 operation in worldwide deployments, the server is designed with a wide operating temperature range and is supported by dual Xeon CPUs to deliver the power required for continued data processing.



Specialist computers

Our product and engineering teams design and deliver industrial computers across a range of form factors to provide powerful computing in a compact footprint for applications where space is at a premium. We leverage our experience in deploying computers across multiple sectors in the world's harshest environments to engineer protection from environmental extremes including shock and vibration, ingress and varying temperatures.

From the test plan through to validation, we guarantee compliance and certification. This is supported by our dedicated in-house testing facilities, enabling us to assess platforms and make any necessary engineering modifications efficiently and effectively. Our compliance engineers have extensive experience in working with test houses to further manage the entire certification process.



Case study: Computers for subsea monitoring and control

These computers form an integral part of a master control station, the hub of a subsea control system. The rugged 4U platforms have been designed and engineered to act as the CPU for our customer's integrated measurement and control systems.

Failure is critical for oil and gas productivity, so each master control system's architecture is supplied with the required level of redundancy to reduce downtime in case of individual system failure.



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