



Custom Rack PC

Vessel Steering Simulators



“By optimising the technical requirements and supply-chain, Captec provided the customer with a custom-designed solution that met the exact specification, while still adhering to strict budgetary requirements.”

**Account Manager,
Captec**

A leading provider of simulation and virtual training solutions to industries and governments worldwide. The customer designs and develops 3D virtual applications and simulators for employees to improve their skillsets in a practical, safe and cost-effective model. Its marine simulation range provides real life training scenarios to the civilian and marine military industries.

Requirements & Issues

- Development of a custom-designed platform to meet the exact needs of the customer
- High graphics and processing capabilities to optimise the quality of simulation images
- Units generated high amounts of heat due to the graphics and processor specifications, which needed to be contained and managed to negate the risk of overheating
- The platform needed to be able to power the graphics cards and processor safely, continuously and reliably
- Expansion capability to connect and run the specialist peripheral devices required by the customer
- Fully satisfy the specification and strict budget requirements

The Solution

- Captec designed and developed a custom-built rackmount computer in a 4U enclosure
- Intel Core i7 processor and two AMD Radeon R9 380 4GB graphics cards for quality of imaging and processing
- Engineered thermal management with both graphics cards strategically configured behind three front fans, allowing for sufficient cooling
- 850 Watt crossfire-ready PSU to provide power to the two graphics cards and processor reliably, safely and for extended timeframes
- Captec integrated ten USB ports to enable the customer to connect peripheral devices, meeting functionality requirements
- Expert component knowledge achieves exact application requirements, while still adhering to the strict budget set out by the end-user



The Outcome

- Customer gained a leading-edge, application-ready computing platform for their application, enabling them to better compete against rivals
- Customer is able to supply a solution capable of reliable operation and optimised performance
- Customer benefits from an extended two year warranty, securing continuity of the application



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