



# Military Flight Simulators

## Image Generators



- “Our ability to integrate COTS rack equipment and high-end server processing power into a fully tested solution added value to the programme by enabling our customer to outsource the complete build.”

**Lee Town,  
BDM**

The solution is for a leading defence training and simulation provider, as part of a larger simulation programme and provides the processing power to drive the synthetic environment when linked together for flight simulation in the military.



## Requirements & Issues

- A commercial off the shelf (COTS) 19" Rack Enclosure to house multiple high-performance image generation computers
- The complete outsource of the integration of the rack for mass production
- Compliance and safety testing to meet local regulatory requirements
- Final engineering drawings and documentation pack, and rack serviceability
- High-end computer processing with appropriate thermal management to ensure stability

## The Solution

- ▶ COTS design methodology used to reduce the cost of change when adding new equipment
- ▶ Managed rack air-flow to support high-end server operating requirements
- ▶ 2D & 3D CAD drawing packs of rack solution
- ▶ Specified cable management techniques for serviceability
- ▶ Documentation pack and compliance testing
- ▶ Scalability production to meet customer production volumes



## The Outcome

- ▶ A complete, and fully integrated image generation platform for a flight simulator
- ▶ High-performance systems that meet the customer's software requirements for today and the future
- ▶ Ease of future servicing and maintenance with a complete drawing pack available, and availability of COTS spares
- ▶ Fully integrated and compliant turn-key delivery of production volumes to meet deployment requirements



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