



Aviation Airspace

Counter UAV Systems



“With the outline procurement specification provided our system architects designed and delivered an integrated/deployable case solution within the two months meeting the project deadline. Integration of Captec developed ruggedised servers and customers radar and observation detection equipment.”

**Lee Town,
BDM**

Our customer is a leader in Aerospace, Defence and Security developing advanced technological solutions and provides a complete, innovative range of services for every mission and every scenario. The complete solution addresses the threat of low, slow and small unmanned air systems.

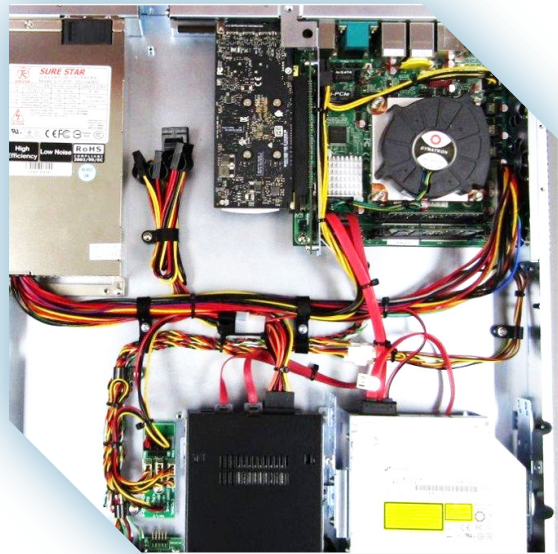


Requirements & Issues

- Requirements for 1U high performance, ruggedised servers to deliver the required video processing capability and the integration of the customers own radar and observation equipment. Total mass of the case needed to be less than 60Kg
- The integration of the computing and the customer's radar and observation equipment into a portable case that weighed less than 60kg
- The equipment integration requires custom patch panels for ease of equipment connectivity, ensuring reliability during transportation and use in the field
- Designed to meet MIL-STD 810G vibration, MIL-STD 461 EMC standards and operations temperature 0°C to +40°C with ingress protection IP65
- Delivery from contract award to deployment in two months

The Solution

- System design optimising size, weight and power (SWaP) of the solution meeting the two person lift criteria
- Selection of rugged COTS 19" rack cases to support lead time and minimise customisation requirements in the integration of the equipment
- Designed short depth 1U servers to support weight target and allowing improved space at the rear for equipment connectivity. Using locking connectors for critical data connections
- Project management to ensure the solution is fully compliant to specification and standards and delivered to the deadline



The Outcome

- The customer received a fully integrated deployable C2 rack solution meeting all specification requirements
- Ruggedised deployable solution supporting ease of transportation and setup
- Customised 1U rack solution which helped reduce weight and can withstand shock and vibration compliance to EMC standards set
- Long-life hardware selected for repeatable future projects and field support
- Project deployment within two months meeting a critical need in the projection air space in both civil and defence applications



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