



# 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-month time-scale, meeting the project deadline.”

**Lee Town,**  
Business Development  
Manager

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
- Integration of Captec’s computing and the customer’s radar and observation equipment into a portable case, weighing less than 60kg
- Equipment integration required custom patch panels for ease of equipment connectivity, ensuring reliability during transportation and use in the field
- Solution must be 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 during integration of the equipment
- Designed short depth 1U servers to support weight target and allow 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 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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