

Success Cases – Electronic Control Unit for Flight Deployment

- **Function & Architecture**
 - Airborne equipment intended to support the deployment sequence of a flight refueling system.
 - Control of indications lights
 - Provides information of proximity and hose extension
- **Main requirements**
 - 300W power supply generation for lights
 - MIL-STD-1553, Arinc429 command/status interface buses
 - RS-422 communication with RGB LEDs & Infrared LEDs
 - DO254, DO178, MIL-STD-704 qualified
 - DO160 qualified : i) Environmental Requirements) , ii) Electromagnetic Compatibility
- **Product Specificity & Achievements**
 - based on DAL B redundancy electronics architecture
 - Designed in the basis of customer's spec
 - Designed to and manufactured under aero and MIL standards.
 - CNC machined parts
 - IPC600 – IPC610 PCA
 - MIL connectivity
- **Main skills involved & Value Added:**
 - Electrical and Mechanical expertise
 - Complex Electronics and Critical Embedded Software
 - Safety & Reliability
 - Test Engineering
 - Powered by TMCORE
 - Customer Satisfaction regarding:
 - Qualification during the Design Phase
 - Performances and Robustness of the Build Standard

