

Success Cases – Power Distribution Unit

- **Function & Architecture**
 - Airborne equipment, part of Electrical System of an existing mid-size cargo aircraft
 - Charge and discharge emergency batteries
 - Isolate electrical system from Power Generators when errors
 - Power Hydraulic System, Flight Control System , Display Control System
- **Main requirements**
 - 28Vdc 160A inputs & outputs
 - 2 Busbars with bus tie
 - Arinc429 communication, DIO interface
 - 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](#)

