# Indian Product Engineering Services Company

**ACCORD**
*Inspired to be innovative*

*Our primary focus is into Aerospace, Embedded, Automotive, Enterprise products and engineering services.*

*Our company was established in 1991 by five technologies who have worked in the field of avionics and real time embedded systems over several decades.*

*Over the years, we have chartered an impressive record of accomplishment in customer satisfaction, innovation, sales and profitability. The success of the group has been made possible with continuous enhancement of competence in Technology, Quality processes, Project Management and customer Focus.*

## VISION
To build the best Engineering Brand in the world.

## MISSION
We shall provide innovative Products and Services to our customers in the field of Aerospace, Automotive, Embedded and other Safety Critical Systems including Commercial Systems.

We shall strive to be the most trusted partner to our customers, consistently exceeding the expectations through Innovation, Commitment and Passion for Excellence.

## VALUES
- Innovation
- Passion
- Excellence
- Nimble
- Integrity Fairness
- Social Responsibility
- Reliability & Safety

### QUALITY

UL REGISTERED FIRM
DQS Inc.

**Accord Global Technology Solution Pvt. Ltd.**

ISO 9001:2015
AS9100:2016 Rev D
CMMI Level 5 V2.2

## 31 Years of Excellence in Services

UK | Germany
USA
India - Bangalore (Head Quarters)
Singapore
Australia

**Our International Presence**

## OUR SERVICES

- Build-to- Spec
- DO-178B/C
- HSIT, Tool Qualification
- DO-160, Obsolescence Engg, Mech Design
- GUI, PC Software, ARINC 653 RTOS
- ATE/LabVIEW System Safety
- Digital/RF/Analog Design
- Certification Services
- FPGA/ASIC/ DO-254

**One Stop shop for Aerospace Product Engineering & Certification Services**

## Build-to-Spec Aerospace Products

### FAA/EASA Certified

UAT Transponder

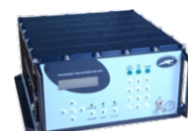ARINC 429 Router

AIBU-Cabin lighting for A320

### CEMILAC Certifued

Control Display Unit

Control Saturation Warning System

Ruggedized Time Distribution Unit

# Aerospace Products and Engineering Services

## One Stop shop for Aerospace Product Engineering & Certification Services

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## Aerospace Products

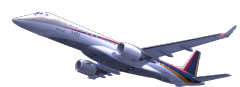### Our FAA TSO-C145c Class Beta 3 GPS-SBAS receiver

- Designed, Developed, Certified and Manufactured by us
- First FAA certification in 2007
- Over 10,000 units delivered for GA, business jets, rotor craft, UAV and other platforms
- Remote Data Concentrators
- DO-229D, DO-178B Level B, DO-254 Level B, DO-160F, DO-301, ARINC 429, ARINC 743A, MIL HDBK 217F, SAE ARP 4754, SAE ARP 4761 compliant
- Platforms: Eclipse 500, Beechcraft, Cessna, Dornier, Pilatus, Piper, BAE Hawk AJT, Bell helicopter and many others

## OUR ADVANTAGES

- One-Stop solution for all avionics engineering services
- We undertake Build-To-Spec (BTS) aerospace products for worldwide customers
- DAL A-D, as per DO-178 B/C, DO-254, DO-160 F/G, FPGA/ASIC
- Avionics product engineering company - Product development team does engineering services as well
- Experience of directly interacting with several ACOs in USA
- Experience of participating in many FAA SOI audits
- Cost Reduction through In-house Tools
- Fast reaction time making extremely short development models a reality
- Proven rapid ramp up in team size & composition
- High retention of talent, including senior key resources, best in the industry

# Software Engineering Services - Avionics

**Aircraft Programs**

We have contributed to many aircraft programs in software development, verification and certification complying to DO-178B/C standards.

- Proven capability to assist you in any or all phases of Software development life cycle
- Engineers trained by FAA DERs
- In-house OpenGL SC compatible library
- In-house ARINC 653 compatible RTOS (OASYS) used in Avionics LRUs of two Rotor craft platforms (CEMILAC certified).

## Subsystems

- Mission Computer
- Flight Control Systems
- Slats & Flaps Control Unit
- Wing Ice Protection System
- Navigation Systems
- Landing Gear Control Unit
- Doors & Slides Control
- Communication Systems
- Flight Display Systems
- Steering Control Units
- Integrated Modular Avionics

# Hardware & RF Engineering Services

- Over 25+ years of experience Design & development compliant to DO-160, EMI/EMC, ESD, Lighting open/short circuit protection etc.
- Analog, Digital, Power supply
- RF and microwave
- Power amplifier
- Up/Down converter
- Power splitter
- Clock distributer



Aircraft Power Interface Board



200W Power Amplifier

# FPGA/ DO-254/ASIC Engineering Services

- 20+ years of experience PLD / FPGA development using VHDL or Verilog
- FPGA to ASIC engineering
- Re-usable IP for ARINC 429, MIL-1553, FFT blocks
- SEU mitigation schemes
- Complete DO-254 life cycle services- Level A, B, C



AST-GLSRF    AST-GPSRF    AST-230    AST-234

# ATE / LabVIEW Engineering Services

- Design, Development, Validation & certification, installation of ATE
- LabVIEW, LabWindows, Python, Matlab & Simulink RT, Perl based fully automated application
- ATE for analog/ digital discrete I/Os, RF and microwave signals, Audio/Video, Avionics & MIL Interfaces
- Hardware Development Platform PXI/e, VXI, PCI/e cDAQ and custom hardware
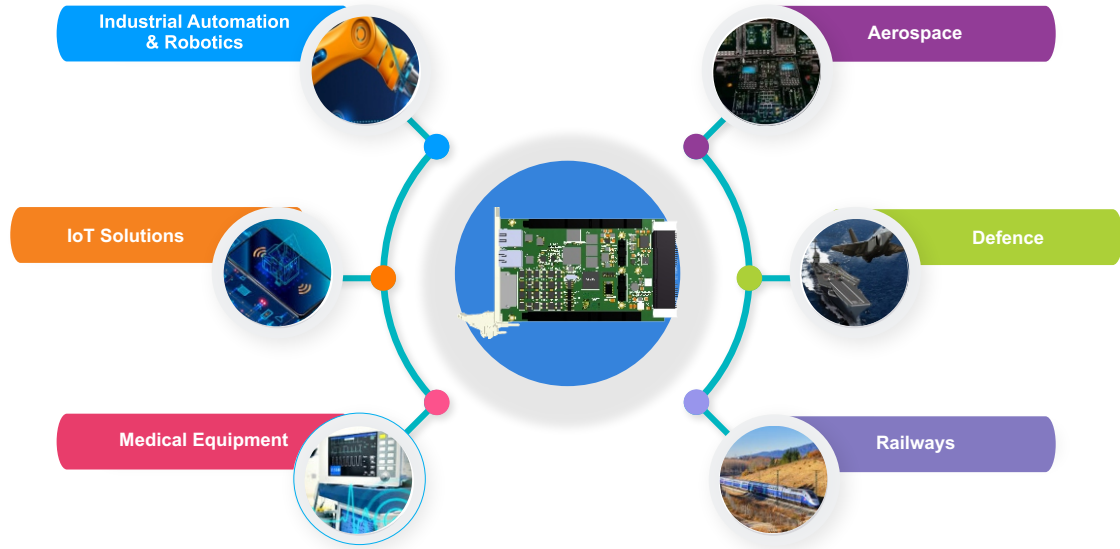


ATE for GNSS Receivers



ATE for CDU

# Software Engineering services

- Aerospace software full life cycle per DO-178B/C Level A-E
- Aerospace software partial life cycle V&V per DO-178B/C Level A-E
- Desktop / Web Application Development
- Mobile Application Development
- Tools development and qualification
- Requirement management
- BSP and driver development
- Re-usable and shared component development
- Hardware-Software integration testing
- Engineering and process quality assessment services
- Documentation services
- RTOS support

# Systems Engineering Services

- "Build-tospec" FAA-certified product development
- "Build-to-spec" CEMILAC - certified product development
- Hardware design engineering
- RF and Microwave Engineering
- FPGA/ASIC Engineering
- DO-254 Engineering
- ATE/LabVIEW Engineering
- Hardware & Software integration
- Environmental Engineering
- Obsolescence engineering
- Mechanical CAD design
- Electronic CAD design
- Systems Safety and Reliability Analysis
- "Build-to-print" manufacturing services

# Embedded Single Board Computers

**Industrial Automation & Robotics**

**Aerospace**

**IoT Solutions**

**Defence**

**Medical Equipment**

**Railways**

# Software & FPGA IPs

**Your Core Application Partitions, managed by our ARINC 653 Compatible OS**

**Our Graphics Library for Display**

**Our ARINC 615A Certifiable Data Loader Library**

**Our ARINC 653 Certifiable OS Library**

**Our DO-254 Certifiable ARINC 429 Tx/Rx, MIL-1553 Remote/Monitor Terminal, SPI Controllers, UART, Ethernet TX/RX 10/100, VITERBI Decoder, Synchronous and Asynchronous Parrel Bus Interface, AHB Slave, HDLC controller, GNSS Baseband, I2C, ADC data loggers and analysers, Serial protocols: BCD, IRIG and HAVEQUICK on your FPGA**

**I/O Interface**

*Contact us for all the I/O Interface drivers

**Accord**
Inspired to be innovative

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