



Data Sheet – Engineering

Whether it is a turnkey product development, a co-design or design improvement, our engineers work closely with the customer at all steps of the design cycle in order to achieve a safe and reliable design that will deliver maximum performance for the end-user.

Comprehensive range of design and engineering services delivering value at every stage of the product lifecycle:

- Complete turnkey design services
- Co-design with customer-led integrated development team
- Design for optimum functionality and manufacturability
- Conceptualize, design, tooling, prototype, test, and volume manufacturing
- Quick response to new designs
- Procurement efficiencies that improved time-to-market for our customers

Services:

- Design- for- Manufacturing (DFM)
- Design-for-Test (DFT)
- Prototyping
- Electronics, RF, & Software Design
- Embedded Systems Design
- Schematic Capture & PCB Layout
- Mechanical Design
- Plastic Tool Design
- Software Design
- Regulatory Compliance Engineering & Testing
- Product Test Development
- Packaging Design
- Reliability & Environmental Design Test
- Feasibility Studies
- Program Management for Schedule and Budget Predictability
- Concept Development
- Product Requirement Specification
- Test Plan Development
- Product Verification and Validation
- Sustaining Engineering Services

Capabilities:

Mechanical Design

- Documentation control and ECN management
- Rapid prototyping (SLA, FDM)
- Plastic and metal parts, enclosures
- Software Design: CAD, Pro-E, Solidworks, etc.

Plastic Tool Design

- CAD/CAM stations
- 2D/3D design
- CNC machines
- Rapid prototyping
- Mold sampling
- Mold flow analysis
- Plastic and over-mold parts

Electronics, RF, and Software Design

Our teams of hardware, RF and software engineers have experiences in designing and co-developing products in the Telecommunications, Consumer Appliances and Electronics, Industrial and Commercial electronics.

- Embedded Systems
- PCB layout
- System architecture
- Analog and digital circuit designs
- Electro-mechanical designs
- RF Designs
- Design for manufacturability and testability
- Design verification and validation

Regulatory Compliance Engineering & Testing

Our engineers understand various safety and regulatory requirements and the importance of incorporating them at the front end of the product development process.

This helps avoid costly modifications and delays in the development schedule. Our design teams are often responsible for submitting and completing safety and regulatory agency approvals such as FCC, UL, CSA, CE, and VDE, etc.

Product Test Development

- Design-For-Test (DFT)
- In-Circuit-Test (ICT)
- Custom Functional Test (CFT)
- In-house Test Fixtures Design and Build