



ENGINEERING DESIGN AND MANUFACTURING SERVICES

NEW DESIGN • RF REGULATORY • PRODUCT DEVELOPMENT

www.prismcs.com



ABOUT US

Prism Computer Solutions(PCS) was founded in 1994 to provide complete systems engineering solutions to the Electronics, Telecommunication and Medical device industries. We have grown with the various segments of the industry and have extensive knowledge and experience in delivering final product from concept to design/development/testing and required certifications including RF approval from the spectrum authority. We have over 20 years design experience to deliver on time, at lowest possible cost, final product taking joint ideas into working, shippable products. We also take the risk out of our development by offering fixed price contracts. Our extensive experience covers implantable, body worn and external medical devices for the worldwide market.

- Prepare final TCF [Technical Construction File] for given medical device. Including all aspects of Engineering and SAR [Specific Absorption Rate]/dosimetry analysis.
- Theoretical computation of RF interference suffered by the telecom system of the implantable medical device from the surrounding other telecom systems as well offer solutions for error free communication in given environments like hospital or residential.
- Theoretical computations of a link budget for the controller and the implantable device communications that predicts the performance of the telecommunications link as well as predict what power is needed to perform well.
- The device/package labeling and compliance details for the user manual.
- We provide turnkey end to end services for pre-production and small to medium production quantities.



DESIGN SERVICES

- Conceptual design blocks for Medical Device
- Prepare feasibility study for Medical Device
- Medical hardware/software/firmware design
- Detail System Architecture
- Component selection for quality and robust design
- Software/Firmware Design
- Mechanical Design
- FPGA Design
- PCB Layout • DFM/DFT
- RF Telemetry selection

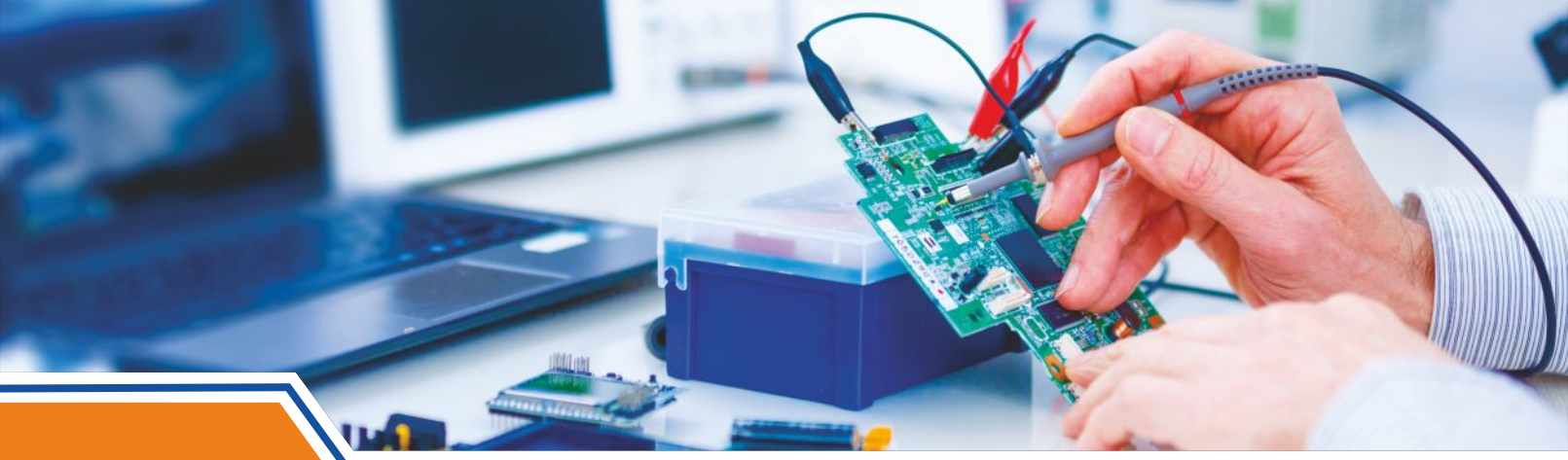
MANUFACTURING SERVICES

- Design Specifications
- Schematics
- BOMs
- Gerbers
- Fab Drawings
- DFM Expertise
- DFT Test Point Data
- Programmable Files
- Assembly Drawings
- Pick and Place Data
- Test Procedures
- Test Jigs
- Onboard Diagnostics
- User Manuals



RF REGULATORY SERVICES

- Global Telecom/RF for worldwide market
- RF Certification Renewal for current products
- Affiliation with large network of certification agencies
- Experienced Global International Regulatory Team
- Provide Telemetry/Bluetooth/Wi-Fi RF test equipment for compliance testing
- Provide Cellular Band RF test equipment for compliance tester
- Soft/Hard RF Regulatory Device Labeling
- Provide Regulatory labeling for Device/Package
- Provide Regulatory compliance statements for User Manuals



PRODUCT DEVELOPMENT

- Medical Applications
- NAS/SAN RAID Storage
- Custom RTOS, C/C++ Code
- Laser Printer Controller
- Embedded Applications
- Lossless Audio/Video Compression
- Cellular RF
- Analog Design
- MIPI, SDI, HD-SDI, 3G-SDI, HDMI
- Compact PCI, PCI-X, PCI-e
- VME64 / Fibre Channel / Ethernet
- SCSI/SAS /SATA / FireWire / USB / I2C /SPI
- Proprietary Busses
- Meeting RF standard for worldwide compliance
- Ruggedization
- MIL-STD-1553B • MIL-STD-1397



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