

## CHENNAI, INDIA

### Design & JDM

### Providing Complete, End-to-end Design Services



### Chennai, India

The Sanmina Chennai facility provides complete design solutions for leading OEMs across several Business/Technology sectors. Our facility is well positioned in a Special Economic Zone (SEZ) with zero taxes on both imports and exports. We combine the advantages of a best-cost region with world-class design services for product development which includes electrical, software and mechanical, printed circuit board (PCB) layout, test, design for manufacture (DFX), VAVE, component engineering, environmental compliance analysis, test engineering, sustaining engineering and New Product Introduction (NPI). Our closely knitted process with our global network of manufacturing facilities and robust IT systems ensure timely & reliable product realization. Sanmina Chennai also provides extensive testing capabilities through partnerships with external compliance, UL and TUV external certification labs. By offering both in-country and region-specific design solutions, we also provide expertise for product localization.

#### Engineering Capabilities

- Turnkey Services for Hardware, Software, Mechanical
- Systems Engineering
- Linux, RTOS, Android Platforms (Porting, BSP, Drivers)
- PCB & Backplane Design and Layout:
  - Signal & Power Integrity Analysis
  - Power Distribution & On-board PSU Design
  - Thermal Analysis
  - ECAD Library Management
  - DFA, DFT and DFM Compliant design
- DFX, Test Strategy formulation, ICT & Boundary Scan Test development, DVT & reliability test automation support
- Manufacturing test development for PCBAs, Sub-assemblies and Systems Sheet Metal and Plastic Enclosure Design
- EMC/EMI, Thermal & Cabling
- Modular Solutions Development (Memory Modules - DRAM, Flash, SSD)
- Local Partners for Specialized Services e.g. Industrial Design
- Hardware Obsolescence, SW Sustainance, EOL Support and VAVE
- Environmental Compliance Analysis
- Third-party Verification & Validation

#### Testing Capabilities

- Digital Storage Scopes: 60MHz to 4GHz, 12GHz
- Personality Modules: PCIe, SATA and other interfaces
- Ocean Optics Light Measuring Bench
- IR Thermometers
- SMT/BGA Rework Stations
- Agilent 3070 ICT Equipment, Fully-loaded Infrastructure
- Geopel Cascon Boundary Scan
- Anti-static ESD Protected Lab
- Partnered with FCC & VCCI Labs with 10 Meter Chambers
- Thermal Chamber
- AC/DC Current Probe
- DC Electronic Load

#### Certifications

- ISO 13485