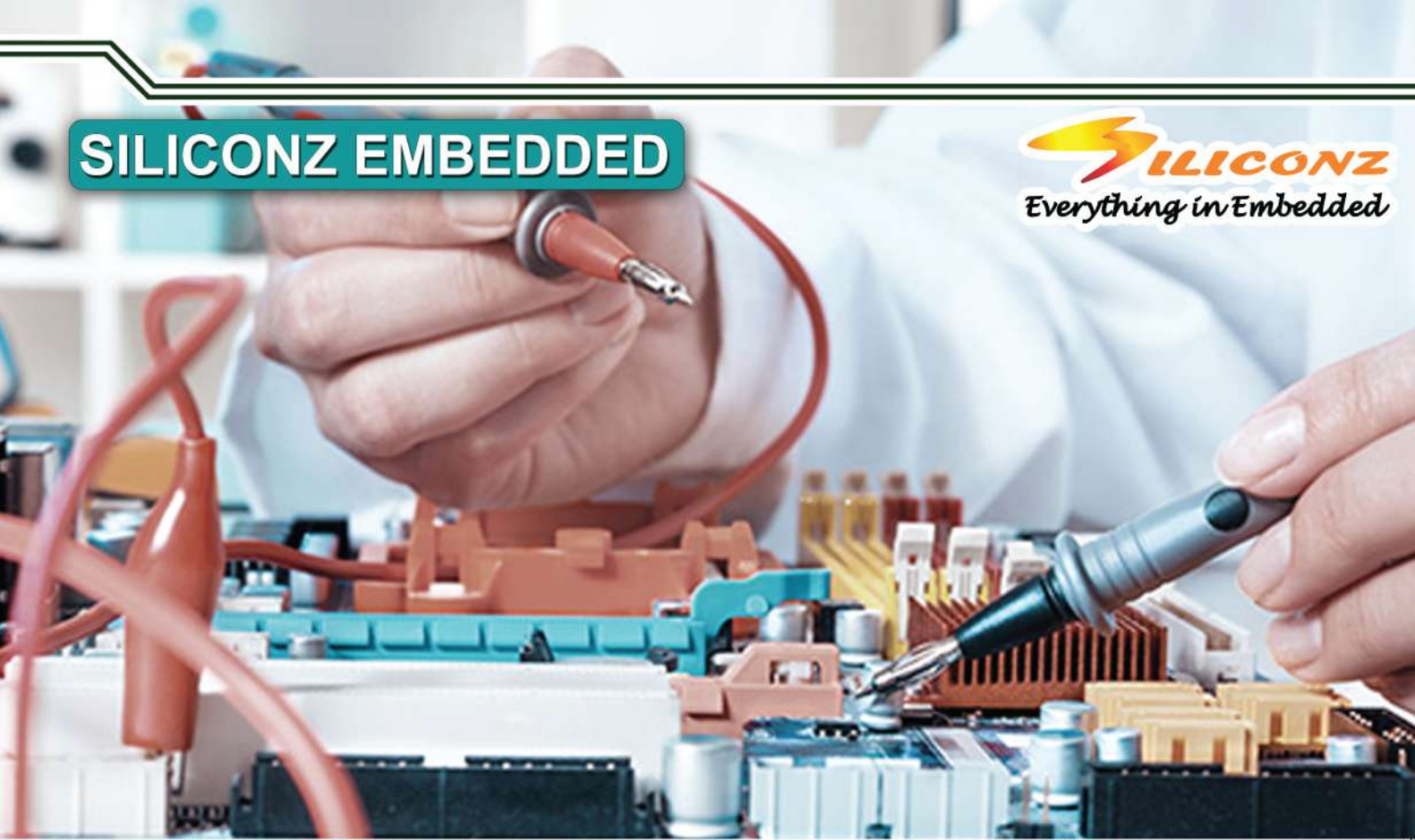




SILICONZ EMBEDDED

SILICONZ
Everything in Embedded

Electronic System Design and Manufacturing (ESDM)

Trust us to Deliver Everything in Electronics

OUR EXPERTISE

* MEDICAL | OPHTHALMOLOGY & ENT

* IT | KEYBOARD & MOUSE

* INDUSTRIAL | ELECTRICAL SWITCHGEAR

* IoT | VENDING MACHINES & SFDC

* AUTOMOTIVE | ELECTRIC VEHICLES

* SECURITY | RFID SOLUTIONS

* SEMICONDUCTOR | DATA LOGGER

* AUTOMATED TEST EQUIPMENTS

* CONSUMER | WASHING MACHINE, LED DRIVERS, STABILIZERS, INDUCTION STOVE

ENGINEERING DESIGN SERVICES (EDS)

DESIGN AND DEVELOPMENT

SILICONZ experienced Team has capability to provide Integrated Design Solutions and Services to our clients from concept to product box build with white labelling. Our Cross functional team interacts closely with customers for the product design development and manufacturing to deliver quality product with quick time to market.

PRODUCT DESIGN & DEVELOPMENT PROCESS



DESIGN CONCEPT

We provide Optimal Solution to Customers over coming on Problems in existing System / New Product Design.



DETAILED DESIGN

Work / Present the selected concept and creating defined solution at the Earliest



DESIGN ANALYSIS

Work on the project considering Prototype, Manufacturing, Testing, Regulatory Compliance upto box build



MANUFACTURING

Optimizing the BOM cost by selecting the preferred components for In-House Prototype and Manufacturing



TESTING

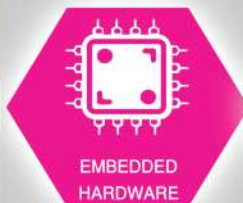
Detailed test protocol to meet the customer expectation for a Product / Solution with Custom made ATE's



SUPPORT

Equiped with experienced team to Support on volume planning, Component Obsolescence, Design Change, Field Feedbacks.

SERVICES & SOLUTIONS



EMBEDDED
HARDWARE



EMBEDDED
FIRMWARE



APPLICATION
SOFTWARE



MECHANICAL
ENGINEERING



MANUFACTURING
ENGINEERING



WHITE LABELLING
& BOX BUILD

EMBEDDED DESIGN DEVELOPMENT CYCLE

SYSTEM ENGINEERING

- Requirement(s) Capture
- Scope Definition & Tracibility
- FMEA, RISK Management
- System Integration & Proto-Build
- Pre-Compliance Testing
- Test Jigs & Fixtures
- Verification, Validation and Acceptance

HARDWARE DESIGN

- System Schematics
- PCB and Harness Planning
- Schematics Design / Simulation
- BOM Preparation
- Guideline & EID for PCB Team
- Manufacturing Guideline
- Test Plan and Test Protocol

PCB LAYOUT

- High Speed Board Design
- Power and Analog Board Design
- Power and Signal Integrity
- DFM, DFT
- RF Antenna PCB Design
- Rigid and Flexi Combo
- Board Design compliance to Standard

FIRMWARE DEVELOPMENT

- Bootloader Porting to Baremetal
- Driver Customization
- Standalone Application Development
- GUI Development with API Interface
- Protocol and Algorithm Development
- Diagnostic Application Development
- Industry Specific Peripheral Interface

MECHANICAL DESIGN

- PCB Stacking and ID Design
- Sheet Metal Design
- Plastic Enclosure Design
- Vibration & Thermal Shock
- FEA & Ingress Protection
- Packaging
- EMI and ESD Shielding

CERTIFICATION

- BIS, FCC, CE & UL Certification
- EMI, EMC & IEC Certification
- Industry Specific Certification
 - . Medical
 - . IT and Telecommunication
 - . High Voltage Switchgear
 - . PED-DSS

ELECTRONICS MANUFACTURING SERVICES (EMS)

We provide printed circuit board (PCB) assembly- SMT and Through Hole with state-of-the-art assembly equipment(s) which provides optimal capacity utilization, passing savings in time and cost to our customers.

PRODUCTION SERVICES INCLUDES

- Specilizing in Prototype Assembly
- New Product Introduction (NPI)
- Product Testing with ATE's
- Large Volume Manufacturing
- Design & Engineering Services
- Component potting
- Component Procurement
- Conformal Coating
- Box Build

PRODUCTION FACILITIES



SMD Paste Printer



Inspection & Linking Conveyor



8 Zone Reflow Oven



SMD Paste Mixer



JUKI RS-1R
Fast Smart Modular Mounter

- Support 0201 ~ 74mm - upto 47,000 cph
- Laser Height Measurement



PCB Assembly Inspection System



Digital Storage Oscilloscope



SMD Components Counter



Through Hole Profiler



High Voltage & Current Probes

Products & Controller Boards Designed by Siliconz

Siliconz Embedded



Automotive
- BLDC Coolant Pump Motor



Semi-Conductor Industry
-4CH Temperature Controller



Ophthalmology
-Indirect Ophthalmoscope



High Voltage Control Panel
-Breaker Controller Unit

Semi-Conductor
-VI Logger



IT / Security
-RFID Reader



Consumer
- BLDC Fan controller



Consumer
- Induction Stove

ENT
-ENT Shaver



IT
- Keyboards



Consumer
- Voltage Stabilizers



Ophthalmology
-YAG Laser



IoT
- Vending Machine

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