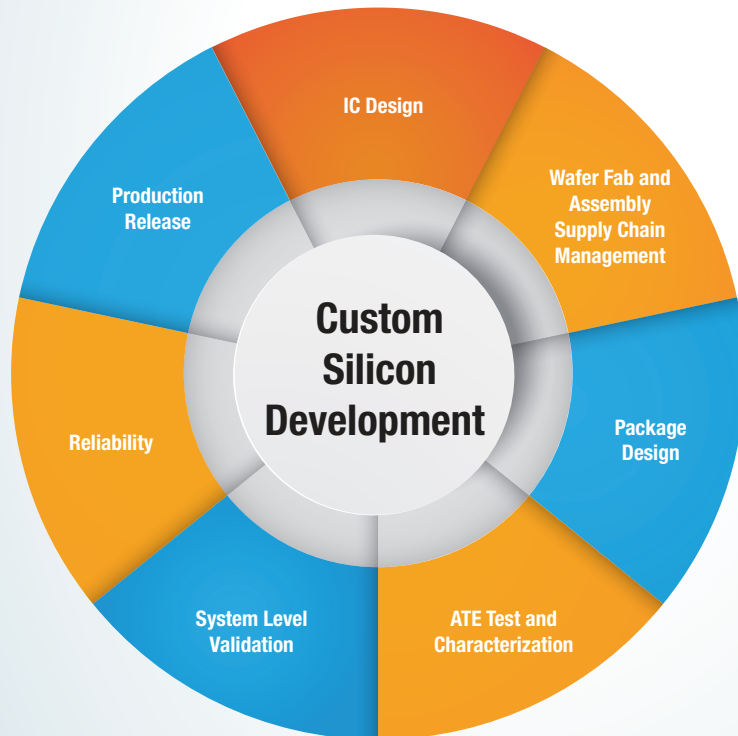


Ensuring Silicon Superiority From Design To Packaged Parts With Turnkey Custom Silicon Development



Tessolve is the leading engineering solution provider with 2000+ engineers worldwide and a full breadth of pre- and post-silicon expertise. Tessolve provides a one-stop-shop solution with full-fledged hardware and software capabilities including its advanced silicon and system testing labs.

We have integrated all our competencies to full Turnkey Custom Silicon Development service from design to packaged parts to ensure customer success. **Tessolve continuously invest in its' R&D** center with specific initiatives in 5G, mmWave, Silicon Photonics, High Performance Compute, System-level Test, Automotive Products, and others.

Tessolve also offers embedded solutions from concept-to-manufacturing under an ODM model with application expertise in Avionics, Automotive, Industrial and Medical segments.

IC Design

700+
Engs

180nm
5nm ↓

Advanced Process Development

VIPs

Verification IP (VIP) solution for different Protocols & IPs

Test/Product Engineering

950+
Engs

650+

Test Programs Released

30+

Automated Test Equipment supported

Hardware Development

225+
Engs

130+

PCB Designs Per Month

60+

Experience with 60+ layers PCB design + SI + PI

Embedded Systems

250+
Engs

26+

Embedded Systems Released

50%

Over 50% employees with 10+ years' experience

CoE Technologies



ARM, RISC-V Subsystem and Analog Block Development



5G and High Frequency RF Solutions



High Performance Compute Solution



Automotive and Autosar solutions

Automotive

Avionics

Consumer Electronics

Industrial

Medical

Sensors

VLSI Design



- Rich design experience includes – Analog, Digital & Mixed signal IPs and SoC Solutions– Spec to GDSII sign-off
- Circuit Design, Layout Design, RTL Design, DV, DFT, PD, FPGA Emulation, Verification IPs (VIP) solution, AMS design & verification
- Expertise in process nodes from 0.35nm down to most advanced 5nm technology
- Executing Turnkey Projects – Ownership from Spec to GDS to Silicon
- Domain experience includes Data Converters, Power Management, High Speed Interfaces – PCIe, DDR, SerDes, SAS/SATA, Ethernet, MIPI, Foundation IPs etc.

Test Engineering

- Test Strategy & Planning
- Test Hardware Design, Test Program Development & Characterization
- Test Time Reduction, Yield Optimization, Platform Conversions, and Multisite Test
- Solutions that enable a seamless transition from development to production
- Multi ATE Platforms Expertise (over 30+ ATE Platforms)
- State of the art Test Floor equipped with ATE testers Advantest, Teradyne, NI etc. and Rack & Stack Bench Equipment
- Device Expertise – RF, Digital, Sensors, Mixed Signal, Analog
- Product Engineering - Advanced product engineering solutions – right from R&D to end of product life



Hardware Designing



- Multi-Platform EDA Tools (Cadence, Mentor, Altium...)
- Design and delivery of ATE, Systems, Burn-in Board (BIB) and Evaluation boards
- PCB Design HDI, Blind/Buried, Flex, RF, Metal Core/Clad, High-Speed DDRx etc.
- PCB Design Simulations (SI, PI, TA, LPDDR etc.) Package Design (Wire Bond, Flip Chip, SIP, WLCP)
- Mechanical Engineering

Reliability & FA Services

- Reliability Services
- Device Qualification
- ESD, Latch up, Burn In (HTOL, ELFR), Package Qual (HAST, HTSL, TC, TCT, THB, PTC...)
- Failure Analysis Services
- VLSI Circuit Edit using 9500 FIB (5nm beam); De-Capsulation (Cu protect jet-etch); Optical
- Microscopy & Measurement (Nikon Iv150), X-Ray, X-Section analysis of PCB & DIE etc.

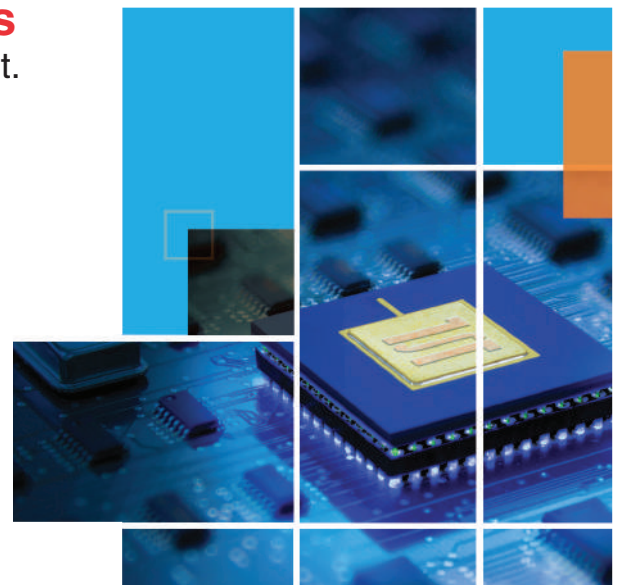


Embedded Systems/Products/Services



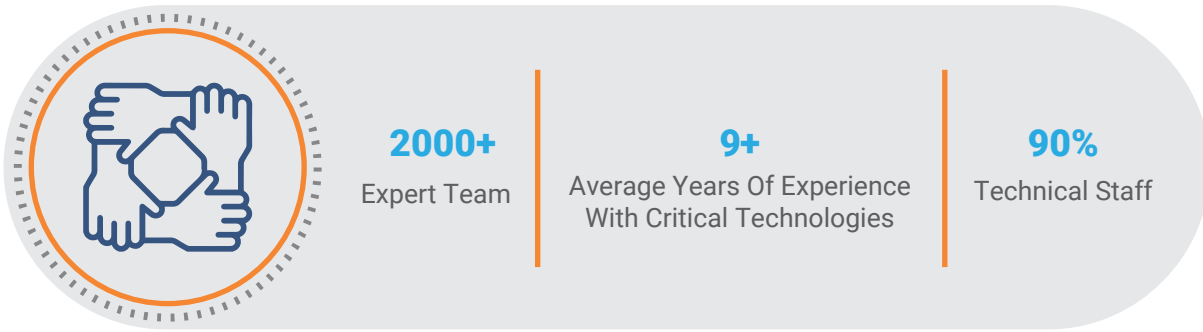
- End to end-product development services from Custom Design to Manufacturing
- Linux & Android Software Development Expertise
- System Design expertise with Digital, Analog, Mixed Signal & RF design capabilities
- FPGA based system design from "RTL coding to board level Validation"
- High-end video, audio and connected multimedia Embedded system
- MAGIK-2 modules based on the SMARC/Q7 standard
- Embedded Services: Linux /Android Device Drivers /Middleware/ Post Silicon Validation Activities
- Digitization: Tessolve is a One-Stop-Shop services provider covering all competencies required for your digital transformation: AI, IoT platforms, and cloud solutions including UI interfaces to access cloud

Together With Our Solution Partners Realizing turnkey embedded systems development.



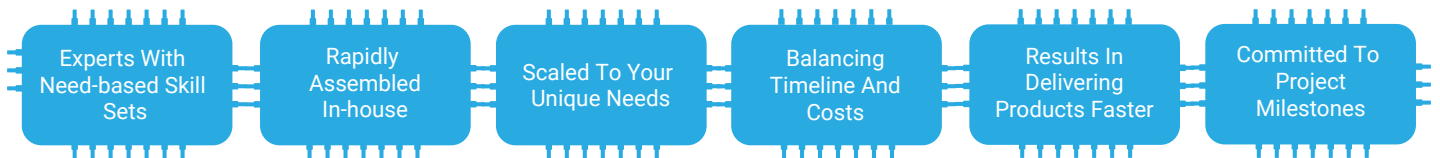
An Extended Arm

Of Semiconductor And Systems Companies



Building Your Project Team

Customized To Your Needs

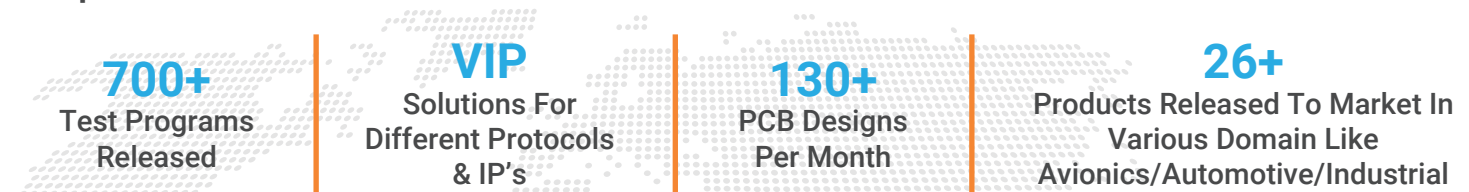


Turnkey Facilities



The Outcome

Speaks For Itself



India | USA | UK | Germany | Thailand | Malaysia | Singapore
China | Japan | South Korea | Philippines



+91 80 4181 2626
+91 80 6816 2626



sales@tessolve.com



www.tessolve.com