CASE STUDY: 
GSM PHONE SOC – FORM FACTOR DESIGN AND VALIDATION

INDUSTRY  Embedded Systems & Platform Software

CLIENT PROFILE
Largest chipset maker for compute and consumer devices.

BUSINESS PERSPECTIVE
L&T designed and tested Form Factor Board based on the customer’s SoC and provided Customer Support. L&T did RF and BB validation for commercial phone using customer’s SoC

SCOPE OF ENGAGEMENT
• Schematic Design according to client Specification
• PCB Layout as per client Specification, Signal Integrity, RF and EMC Consideration and RF Simulation & Analysis
• Prototype Boards manufacturing for software development & field trials for global locations
• Board Wake-up and Base Band Testing: BB Electrical, Audio, Acoustics and Hardware Blocks
• RF Testing: GSM/GPRS/EDGE | FM | BT | Coexistence Test Cases
• Circuit level optimization activities:
  System Power consumptions | Charger performance | Audio performance | RF performance optimization - (GSM/GPRS/EDGE | FM receiver tests | Bluetooth Tests)

TOOLS & TECHNOLOGIES
• Labview
• NI GPS Simulator Bundle
• PXI system with Vector Signal Generator(VSG), Vector Signal Analyzer(VSA)

L&T TECHNOLOGY SERVICES IMPACT
• Major bugs in customer silicon were detected during the validations which were corrected by the customer in subsequent re-spins.
• Project Execution on full ownership model with onsite-offshore teams and Complete test environment support by L&T
• Flexible manufacturing engagement using both client and L&T partners and delivering to multiple global locations
• Customer Support on commercial phone based on customer’s SoC for Tier 1 OEM
ABOUT L&T TECHNOLOGY SERVICES

L&T Technology Services is a wholly-owned subsidiary of Larsen & Toubro with a focus in the engineering services space, partnering with a large number of Fortune 500 companies globally. We offer design and development solutions through the entire product development chain, across various industries such as Industrial Products, Medical Devices, Transportation, Telecom and Hi-tech and the Process Industry. We also offer solutions in the areas of Mechanical Engineering Services, Embedded Systems & Applications, Engineering Process Services, Product Lifecycle Management, Engineering Analytics, Power Electronics and Machine-to-Machine and the Internet-of-Things (IoT).

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