

1. Requirements & Concept

Flow: Customer requirements → Market analysis → Feasibility → Concept definition



2. Architecture & System Design

Flow: System block diagram → Component selection → Preliminary BOM → DFMEA



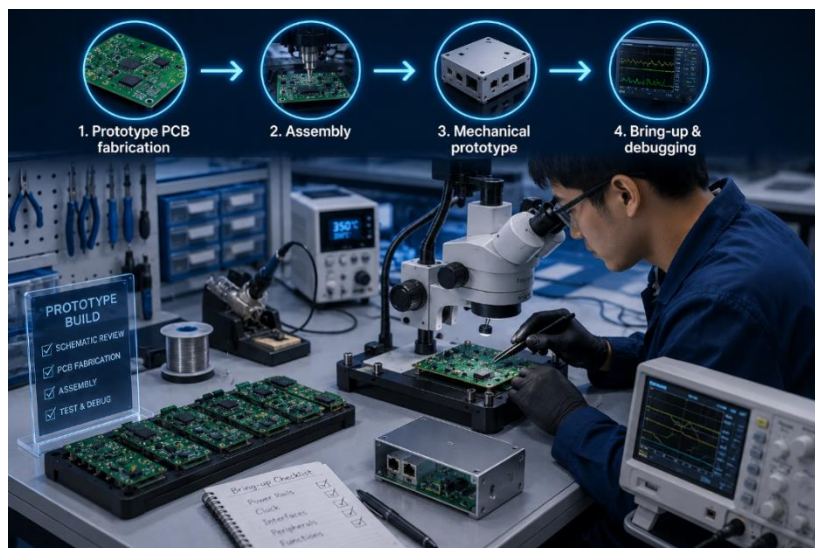
3. Detailed Engineering

Flow: Schematics → PCB layout → Mechanical CAD → Firmware architecture → DFM/DFT



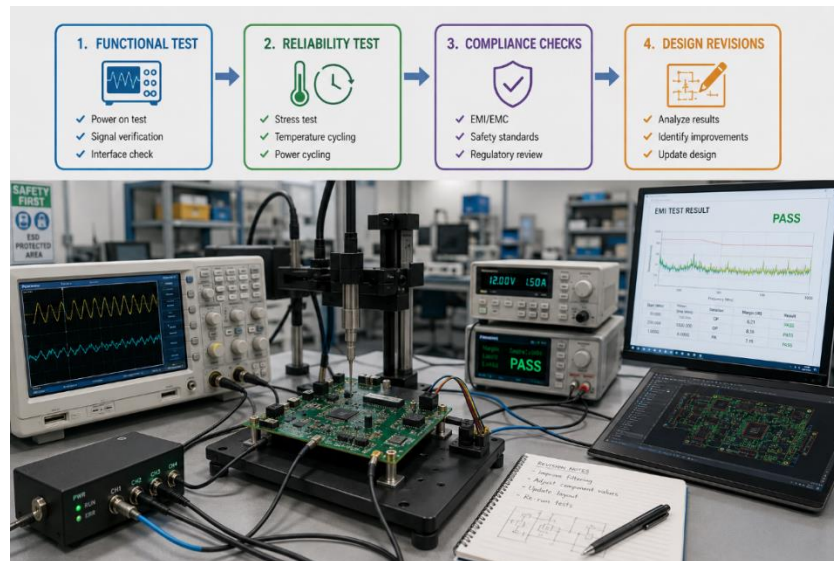
4. Prototype Build

Flow: Prototype PCB fabrication → Assembly → Mechanical prototype → Bring-up & debugging



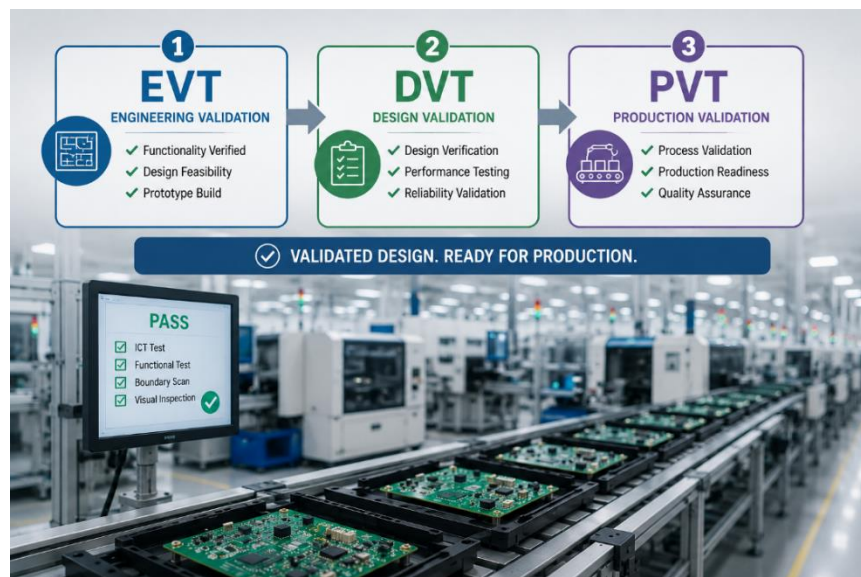
5. Verification & Validation

Flow: Functional test → Reliability test → Compliance checks → Design revisions



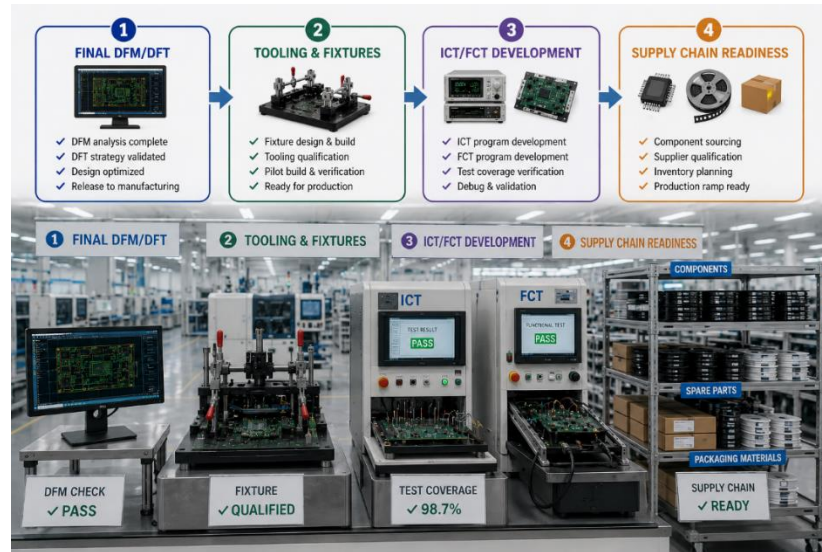
6. EVT → DVT → PVT

Flow: EVT (engineering validation) → DVT (design validation) → PVT (production validation)



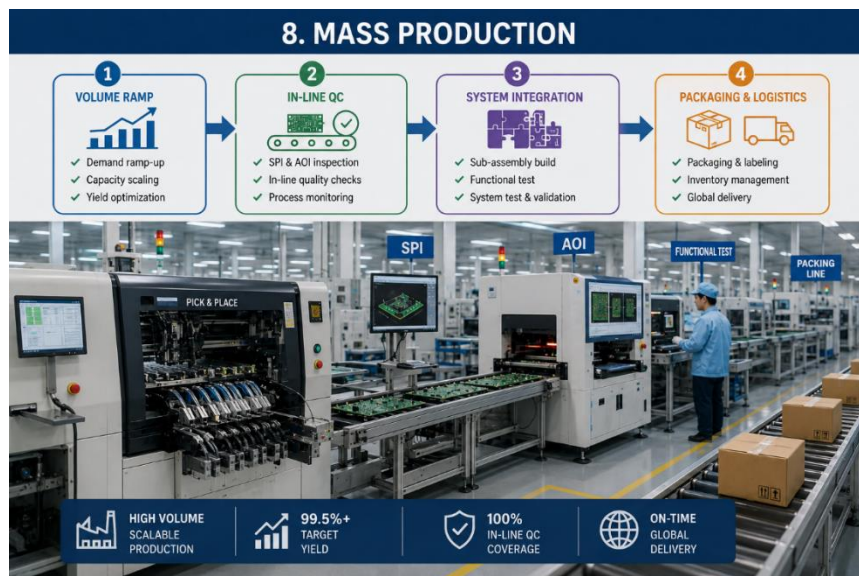
7. Manufacturing Readiness

Flow: Final DFM/DFT → Tooling & fixtures → ICT/FCT development → Supply chain readiness



8. Mass Production

Flow: Volume ramp → In-line QC → System integration → Packaging & logistics



9. Post-Launch Support

Flow: Field monitoring → Failure analysis → Continuous improvement → Lifecycle management

