

Rapidise ensures **scalability, compliance, and continuous innovation** for global OEM and Tier-1 partnerships through an extensive, certified, and globally distributed R&D and manufacturing ecosystem, backed by vertical integration and robust supply chain management.

This infrastructure is defined by its global footprint, comprehensive testing labs, high-volume production capability, and mandatory adherence to automotive-specific standards.

1. Global R&D and Manufacturing Footprint (Scale)

Rapidise has established a significant global footprint to support engineering and manufacturing volume required for scalability:

- **Total Facilities:** The entire group maintains **11 R&D Centers** and **10 Electronics Manufacturing & PCBA Facilities**.
- **Engineering Team:** The operations are supported by an End-to-End Automotive Product Development team of **more than 300 engineers** and a manufacturing and engineering team totaling **500+**.
- **Geographic Distribution:** Rapidise maintains a global presence with executive and operational offices in key markets:
 - **USA:** Executive Office in Silicon Valley, California, and a Manufacturing Facility in Los Angeles.
 - **Japan:** Head Sales Office in Tokyo.
 - **India:** Multiple locations including Headquarters and Executive Offices in Ahmedabad and Delhi, and key R&D/Manufacturing hubs:
 - **R&D Centers:** IoT & AI Design & Development Centers in Ahmedabad and Bangalore, and an OEM Product R&D Center in Baroda.
 - **Manufacturing Plants:** A Primary Manufacturing Facility in Delhi and secondary plants spread across Manesar (Head Office & Plant-I, Plant-II, Plant-VI, Plant-VII), Bhiwadi (Plant-III), Halol (Plant-IV), Haridwar (Plant-V), and Pune (R&D Centre & Plant-VIII).

2. Manufacturing Capabilities and Scalability

Rapidise guarantees production scalability through owned and advanced manufacturing lines:

- **High-Volume Production:** The facilities include **18 SMT and 22 Full Product Assembly Lines**, supporting the delivery of over **5 Million+ PCBs**.

- **Quality Manufacturing Environment:** The SMT Area and Camera Module Assembly Area are both **Rated Class 100,000 Clean Room**, crucial for high-precision electronics manufacturing.
- **Advanced Equipment:** Manufacturing is executed using sophisticated machinery like In line Solder Paste Inspection (Make: Kohyoung), In-line X-Ray Machines (Viscom/Shimadzu), and Selective Soldering (Make: Ersa).
- **Full Product Assembly:** Services cover PCB Assembly (SMD, DIP, TH), **Box Build & Full Product Assembly**, Mold & Enclosure Manufacturing, and Green Manufacturing.

3. Compliance and Certification for Automotive Excellence

Compliance is a core focus, ensuring products meet the rigorous quality and safety demands of the automotive sector:

- **Automotive Quality Certification:** Rapidise holds the essential automotive quality management certificate: **IATF 16949**.
- **Safety Compliance:** Automotive services explicitly include **Hardware Validation and Testing** that verifies compliance with safety standards and regulations, citing **ISO 26262 safety certifications**.
- **General Quality Certifications:** Other held certifications include ISO 9001 and ISO 14001, among others.
- **Compliance Verification:** The New Product Introduction (NPI) process requires verifying compliance with safety standards and regulations.

4. Continuous Innovation and Validation Labs

Innovation is continuously supported through dedicated R&D centers and comprehensive testing laboratories that validate designs against harsh automotive conditions:

- **R&D Centers:** There are **6 R&D and Final Product Testing Centers**. These centers support the full Hardware Development Life Cycle (HDLC), from DFM Prototype to Production Validation Sample delivery.
- **Product Reliability Test Lab:** This lab ensures hardware reliability through extreme testing methodologies:
 - **Stress Testing:** Including **HALT / HAST Tests** (Highly Accelerated Life/Stress Tests).
 - **Environmental Endurance:** Testing involves **Thermal, Humidity, Insulation Testing, Endurance & Ageing Testing**. Chambers include Climatic Chambers (Hot, Cold and Humid), Bench Top Environmental

Chambers, Salt Spray Chambers, Dust Chambers, and Water Spray Chambers.

- **Vehicle Testing:** Specialized equipment includes a **Vehicle Cold Chamber** and a **Chassis Dynamometer**.
- **EMI/EMC Compliance:** Testing includes Electromagnetic Testing (EMI & EMC) utilizing **Semi Anechoic Chambers** and ESD (Electrostatic Discharge) Control measures.

5. Supply Chain Strength (Continuous Operation)

Scalability and continuous operation for global OEM partnerships are underpinned by a robust supply chain network:

- **Global Reach:** Rapidise manages a supply chain network with **imports from 15+ countries** (including China, Taiwan, USA, Korea, etc.).
- **Extensive Network:** They leverage a network of **500+ suppliers** across the globe and maintain relationships with **50+ authorized distributors** (such as Arrow, Avnet, Future, WPG).
- **Purchasing Power:** The Annual Purchase Power is substantial, covering **30+ procurement categories** (Electronics, Mechanical, Wires, Plastics, etc.).
- **Strategic Partnerships:** Rapidise maintains **10+ OEM associations** with semiconductor partners (like Texas Instruments, Microchip, Quectel, Nordic) and strategic relations with logistics partners (DHL, FedEx, etc.).

This globally distributed infrastructure and formalized testing regime allow Rapidise to operate as a **Strategic Automotive Technology Partner**, offering vertically integrated "360-Degree Automotive Solutions" to match the long-term innovation needs of OEMs and Tier-1 suppliers.