

Cloud Based Product Engineering & Electronics Manufacturing



Security and Surveillance Industry Capabilities Deck



We are **transforming the ODM landscape**
by seamlessly connecting design and
manufacturing with our cutting-edge on-
demand platform

Our USP

- 25+ yrs of Manufacturing Services Delivery
- 12+ Yrs of Design Services Delivery
- Owned Manufacturing & Assembly Line
- Electronics, Mechanical, IoT, AI & Cloud Development
- Ready Products for White-labelling

Manufacturing &
Engineering Team

300+

SMT & PCBA Facilities

2

Successful
Product Deliveries

135+

Full Product Assembly &
Testing Lines

6

Satisfied
Customers

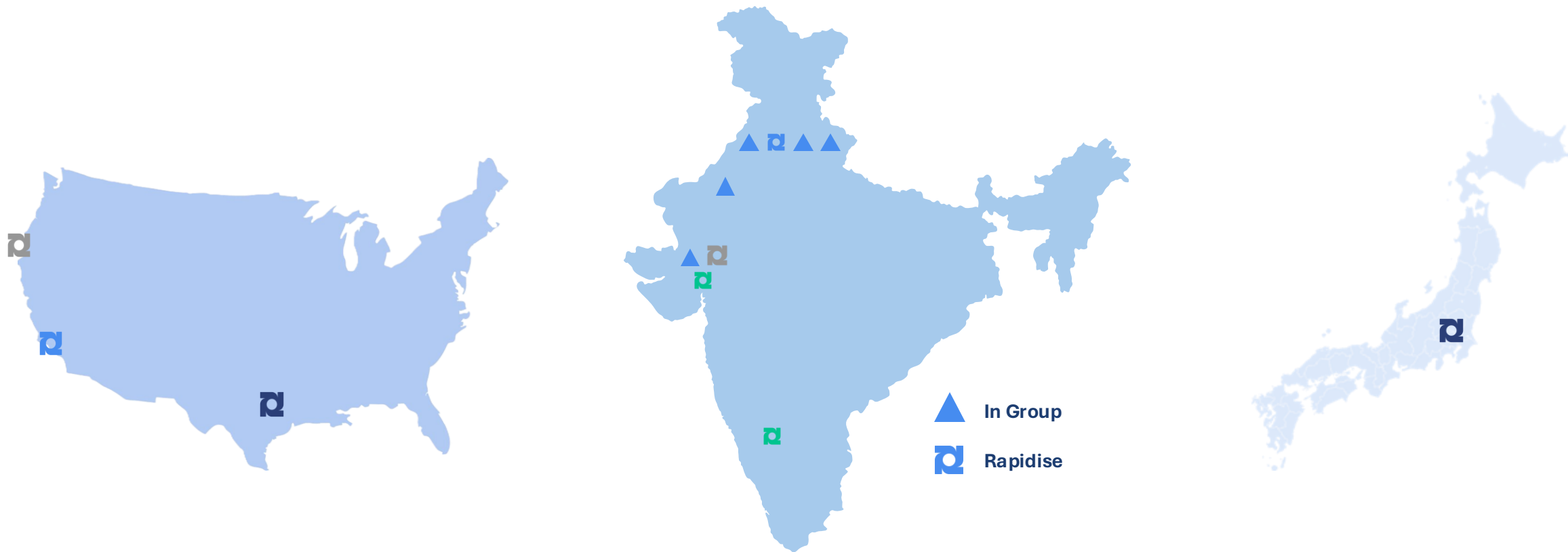
100+

R&D, Development & Product
Testing Centers

3



Global Footprint:



- 1 Manufacturing Facility
- 1 Sales Offices
- 1 USA HQ



- 3 R & D Centers
- 9 Manufacturing Facilities
- 1 India HQ



- 1 Sales Office

General Hardware Development Life Cycle





Embedded Hardware

- Hardware Architecture
- BoM Optimization
- Electrical Schematic Design
- Multilayer PCB Layout Design
- High-Speed Board Design
- Analog & RF Design
- Certification & DFM
- Image, Audio, Antenna Tuning



AI Development

- Computer Vision
- Edge Computing & AI
- Algorithm Development
- Natural Language Processing
- Predictive Maintenance
- Object Detection
- Face Detection



Mechanical Design

- New ID concept generation
- Product Design & Development
- Reverse Engineering & Concept designing
- Simulation and Analysis
- IP Standards Validation
- 3D Engineering



Embedded Software

- Bare Metal, RTOS, Linux, AOSP
- BSP, Device Driver and Firmware
- Linux Kernel Customization
- HAL, I2C, SPI, PCIe, WiFi, Cellular, Sensors
- Multimedia Codec & Framework
- FOTA - Firmware Over the Air
- User Interface Software



Information Technology

- Video Based Surveillance Dashboard Development
- Web & Mobile App Development
- API Development and integration
- IoT Dataflow Architecture
- Data Visualization
- Managed DevOps Services
- Cloud Engineering - AWS, Azure, GCP
- Robotic Process Automation
- Metaverse, AR/VR App



New Product Introduction

- Certifications
- DFM Analysis
- Supply Chain Management
- Automated Test Jigs
- Feature Enhancing and Re-engineering
- BOM Optimization
- Performance Optimization



Manufacturing Services

- Electronic Design Validation
- PCB Assembly (SMD, DIP, TH)
- Supply Chain & Sourcing
- Mold & Enclosure Manufacturing
- Prototyping
- Box Build & Full Product Assembly
- QA/QC & Testing
- Packaging
- Green Manufacturing



Manufacturing Capabilities

- 5 Million+ PCBs Delivered
- Manufacturing & Engineering Team of 500+
- 10 Electronics Manufacturing & PCBA Facilities
- 18 SMT & 22 Full Product Assembly Lines
- 6 R&D and Final Product Testing Centers
- SMT Area Rated Class 100,000 Clean Room
- Camera Module Assembly Area Rated Class 100,000 Clean Room
- Solder Paste Printer
- In line Solder Paste Inspection (Make: Kohyoung)
- Nitrogen and Lead-free Compatible Soldering
- Wave Soldering
- Selective Soldering (Make: ERSA)
- Pin Insertion Machine (Make: TE P350)
- Inspection- 3D Automatic Optical (Make: Omron)
- Inspection- In-line X Ray Machine (Viscom (Germany) and Shimadzu (Japan))
- PCB Cleaning (Make: Unitech)
 - Electromagnetic Testing (EMI & EMC), ESD (Electrostatic) Control workstation
 - Thermal, Humidity, Insulation Testing, Endurance & Ageing Testing
 - Climatic Chambers (Hot, Cold and Humid)
- Component mounting machine Capability:
 - Min : 0402mm/ 03015 inch
 - Max : 102*102*T 25.4 mm
 - Accuracy : 30 Micron

Security & Servailance Focused Services - Product Reliability Test Lab :



EMI Testing

- Electro Magnetic Interference
- ESD checker system
- ESD Simulator
- Semi Anechoic Chambers:
- EMI Test Receivers:
- RF Power Amplifiers:
- Pre-Amplifiers
- Antennas
- Directional Couplers
- BCI Probes



RF Tuning

- Spectrum Analyzers
- Vector network Analyzers
- Signal Generators
- RF and Microwave Switches



Vehicle Testing

- Vehicle Cold Chamber
- Chassis Dynamometer



IP Rating

- Air Showers
- Bench Top Environmental Chamber
- Temperature & Humidity Test
- Salt Spray Chamber
- Dust Chamber
- Water Spray
- Thermal Shock
- Vibration Test
- Transient Voltage
- Laboratory Oven



EPC Testing

- 100x Microscope
- Profile Tuning Suite
- ESD protected production floors
- Electro-Static Discharge
- Dark Room for camera lens calibration
- Resistance Meter
- Power Analyzer
- Thermal Imager
- Function Generator
- Insulation Test
- Electronic Lead Test
- LCR Meter
- Highly Accelerated Stress Test
- Switch Endurance
- Oscilloscope
- ACG Rig Test Bench (Vehicle Simulation)
- Digital Call Box and Analog Call Box



Water Spray Chamber



Salt spray & Thermal Shock



Accelerated Stress Test



Hot / Cold Environment Chamber



MID Motor Performance Test Rig



Sensor Functional Tester



Performance Measurement



EMI-EMC

Group-Level – Supply Chain Capabilities :

