

PrimuStron

Professional EMS Manufacturer

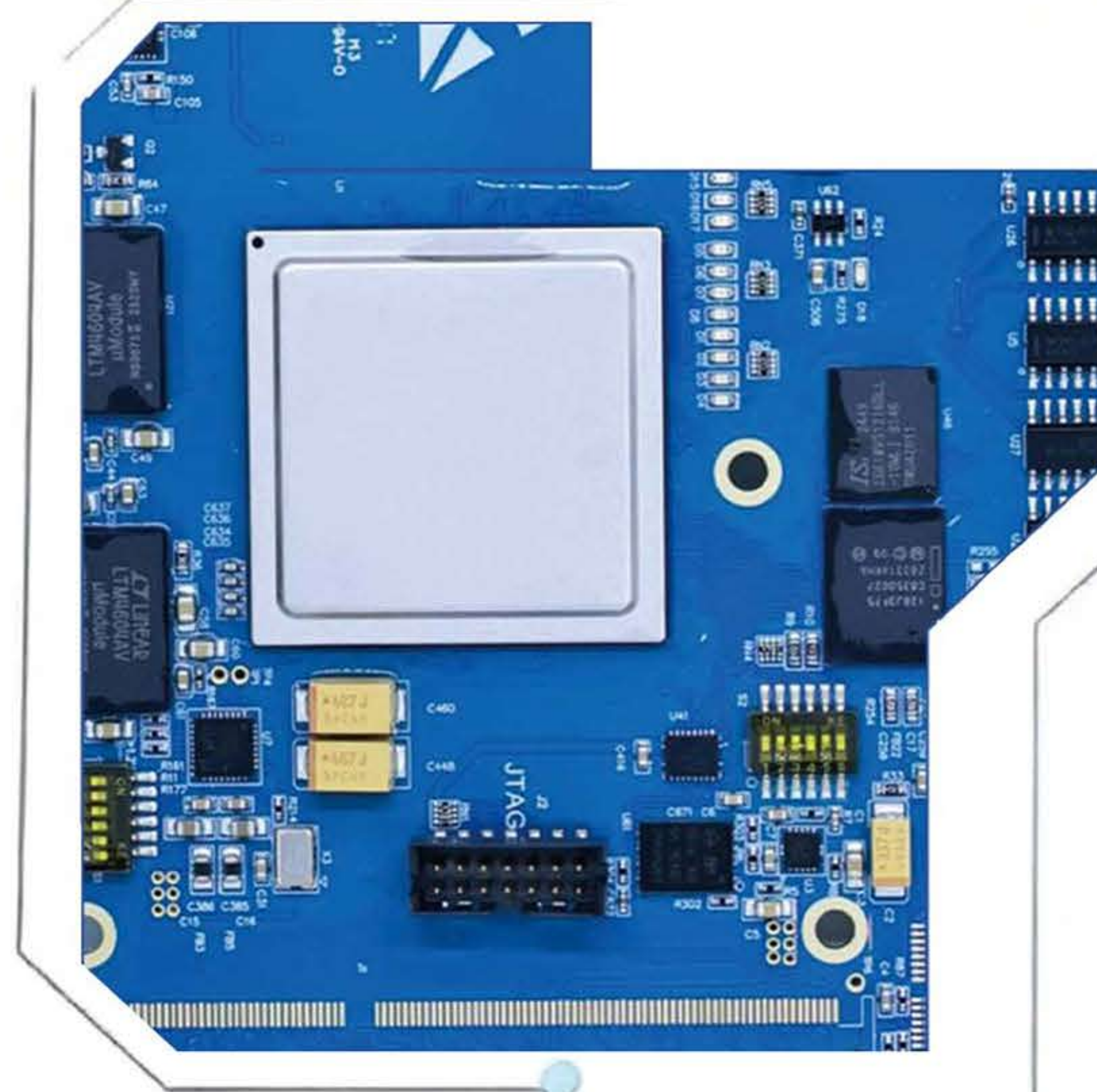


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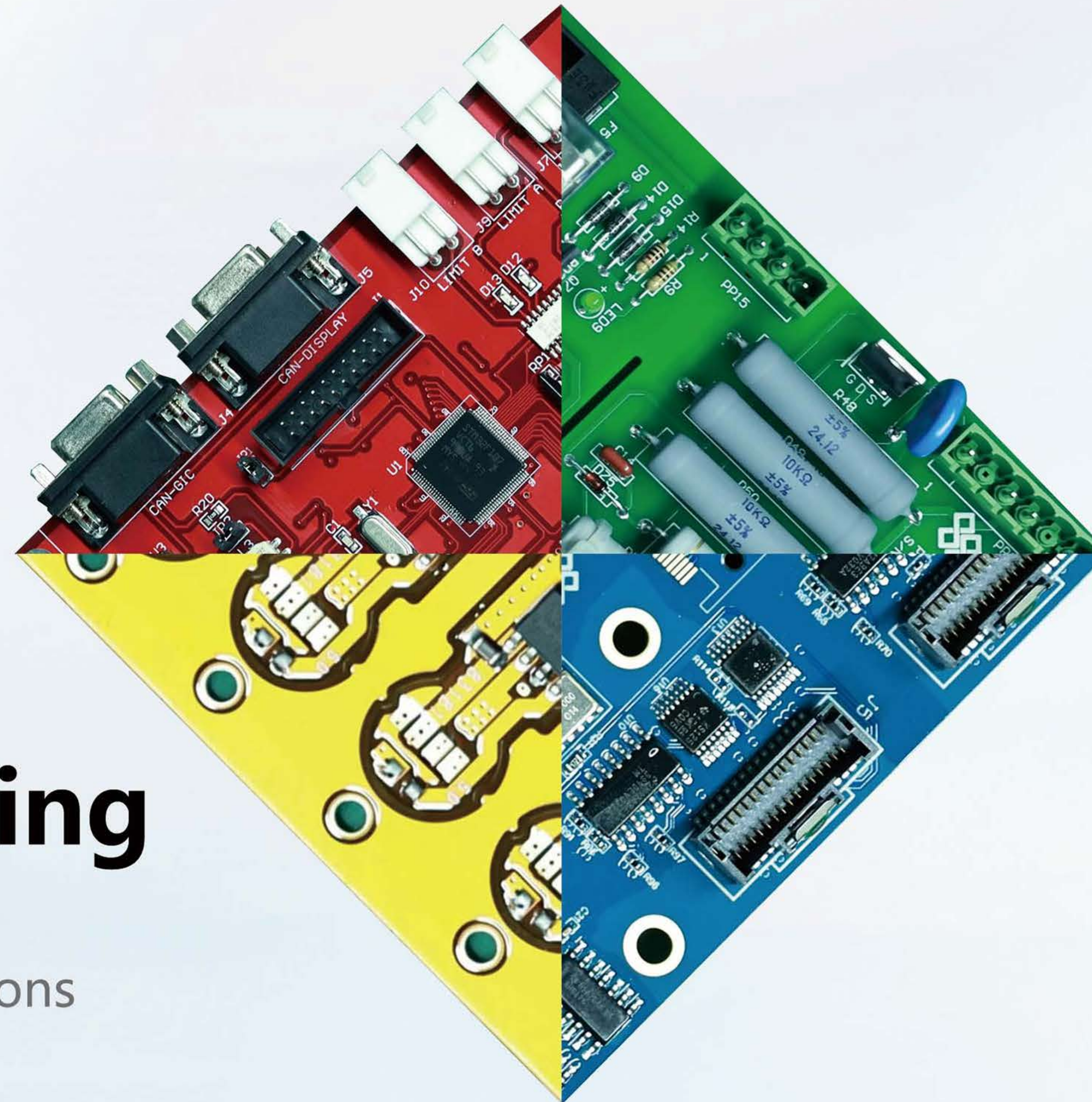
One-Stop Turnkey Solutions
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Technology & R&D

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Quality & Assurance

Quality Control
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Primustron

15+

SMT Production Lines

100+

High-end
Production and Testing Equipment

10000+sqm

Class 10,000 Clean Workshop

28000+sqm

Production Base Area

26+ Years

of Industry Expertise



Company Profile

Founded in 2000, Primustron is a professional high-end electronics manufacturer, focusing on providing one-stop electronic manufacturing solutions and supply chain management services.

Leading in the North

Headquartered in Beijing, Primustron has production bases in Yanjiao (East Beijing), Tianjin, and Tangshan, Hebei, with a total area of approximately 28,000m². Among them, the Class 10,000 clean purification workshop is about 10,000m², and it is equipped with a dedicated RoHS production workshop and a small-batch pilot production line.

Hardcore Strength

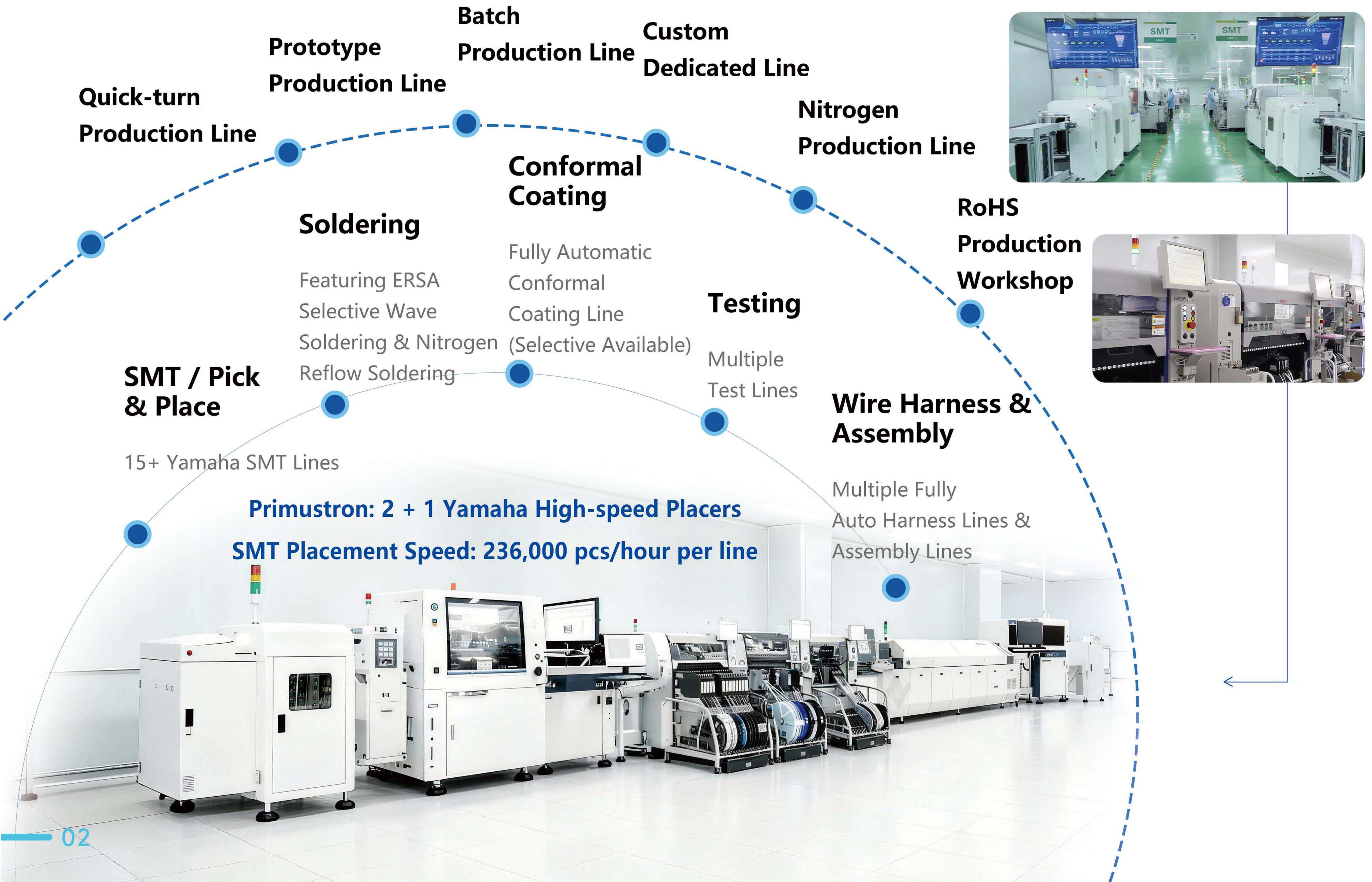
Primustron currently possesses multiple SMT production lines, THT production lines, fully automatic wire harness production lines, fully automatic conformal coating and curing production lines, and complete machine assembly and testing production lines. Equipped with nearly 100 sets of imported high-end production and testing equipment, the production capacity and product quality are fully guaranteed.



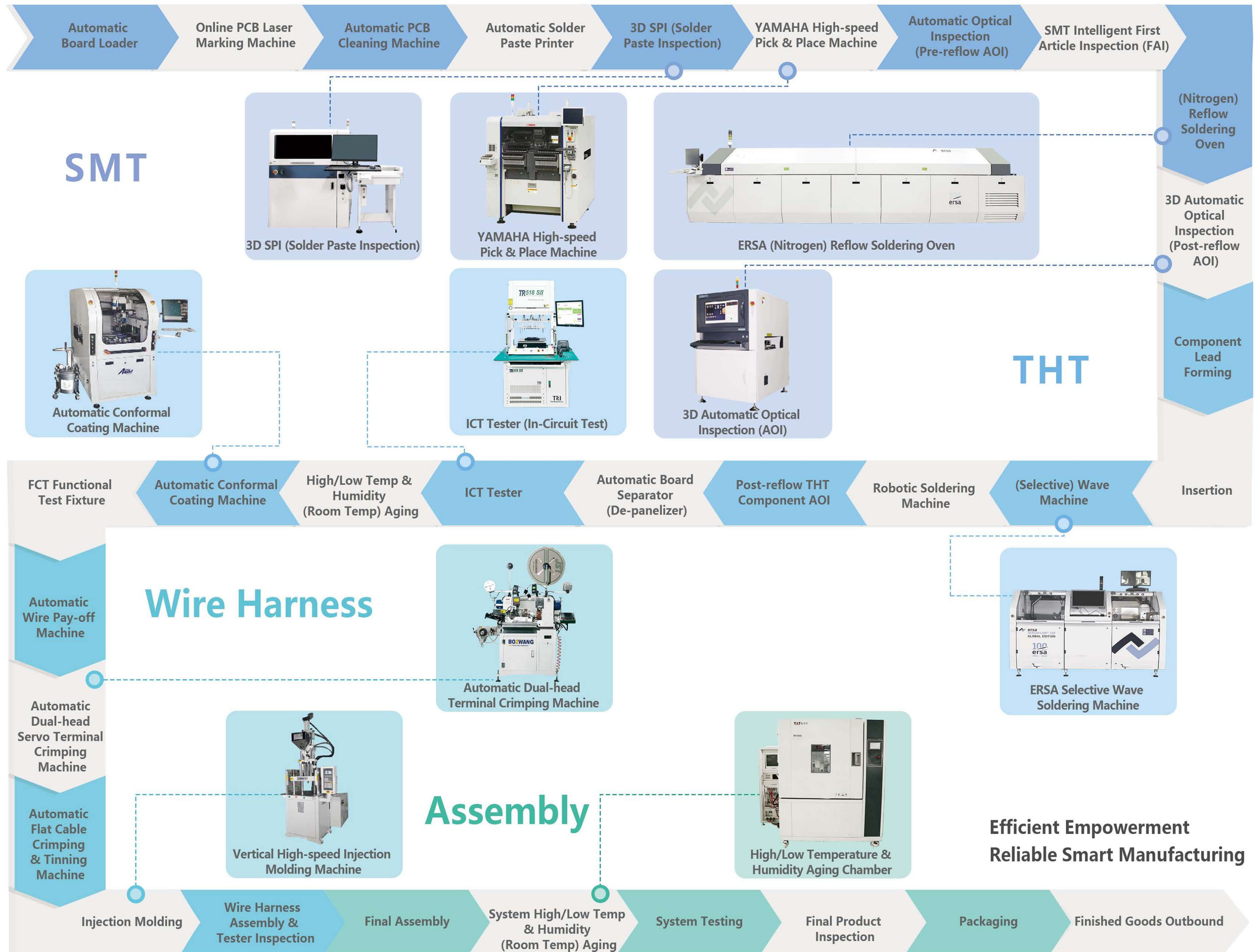
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High-end Manufacturing Workshop

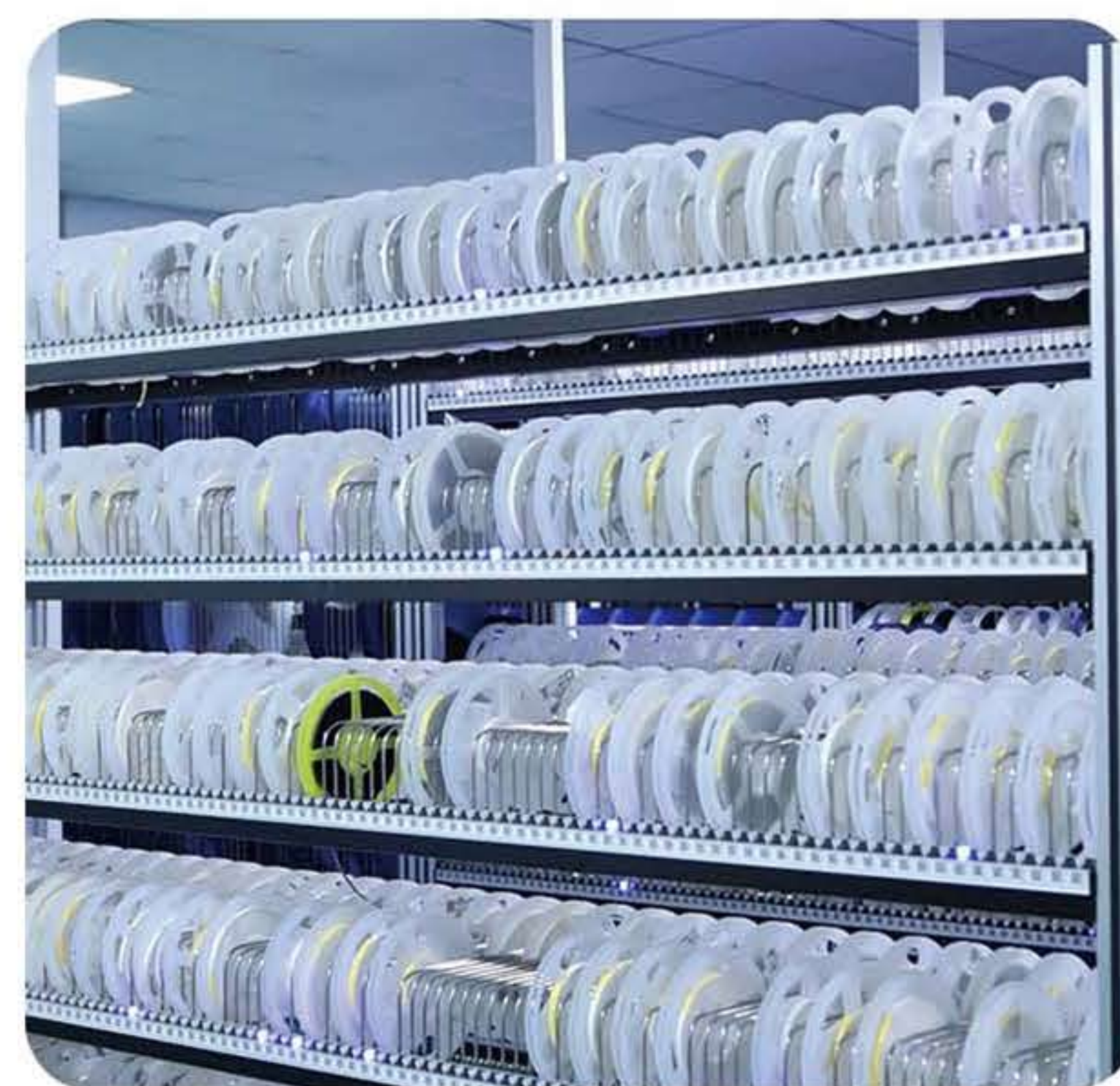


Full-process Production Capability





 **Quality Traceability**
Transparent Production Process



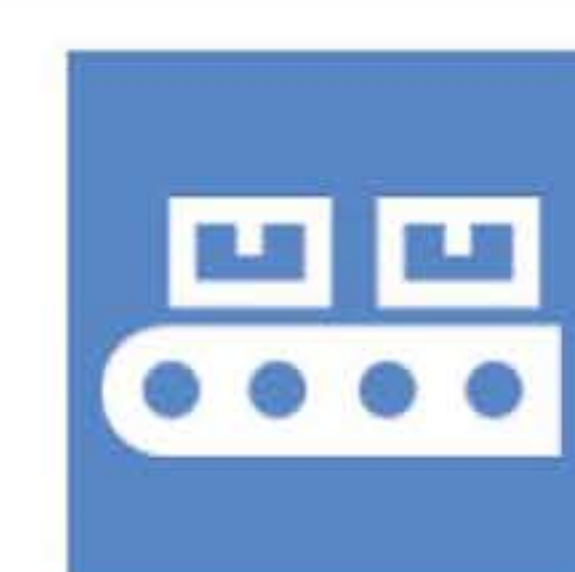
 **Intelligent Warehousing**
JIT (Just-In-Time)
Inventory Management



Software-Hardware Collaboration for Efficient Factory Management



 **Lean Management**
All-staff Participation in Data Recording

 **Real-time Monitoring**
Full Control of Project Progress



System Certification

Strictly Adhering to Compliance Systems, Serving Domestic and International Clients



**ISO-13485: 2016
Medical Device Quality
Management System**



**IATF-16949: 2016
Automotive Quality
Management System**



**IECQ-QC080000: 2017
Hazardous Substance Process
Management System**



**GJB-9001C: 2017
National Military Standard
Quality Management System**



**ISO-14001: 2015
Environmental
Management System**



**ISO-45001: 2018
Occupational Health and Safety
Management System**



**ISO-9001: 2015
Quality Management
System**

Serving Diverse Industries and Supporting Customers Worldwide



Medical Devices

CT Scanners, X-ray Machines
MRI, Infusion Pumps
Ventilators, Anesthesia Machines
Traditional Chinese Medicine
Decoction Machines
Blood Pressure Monitors
Height and Weight Scales
IVD Reagent Analyzers, etc.



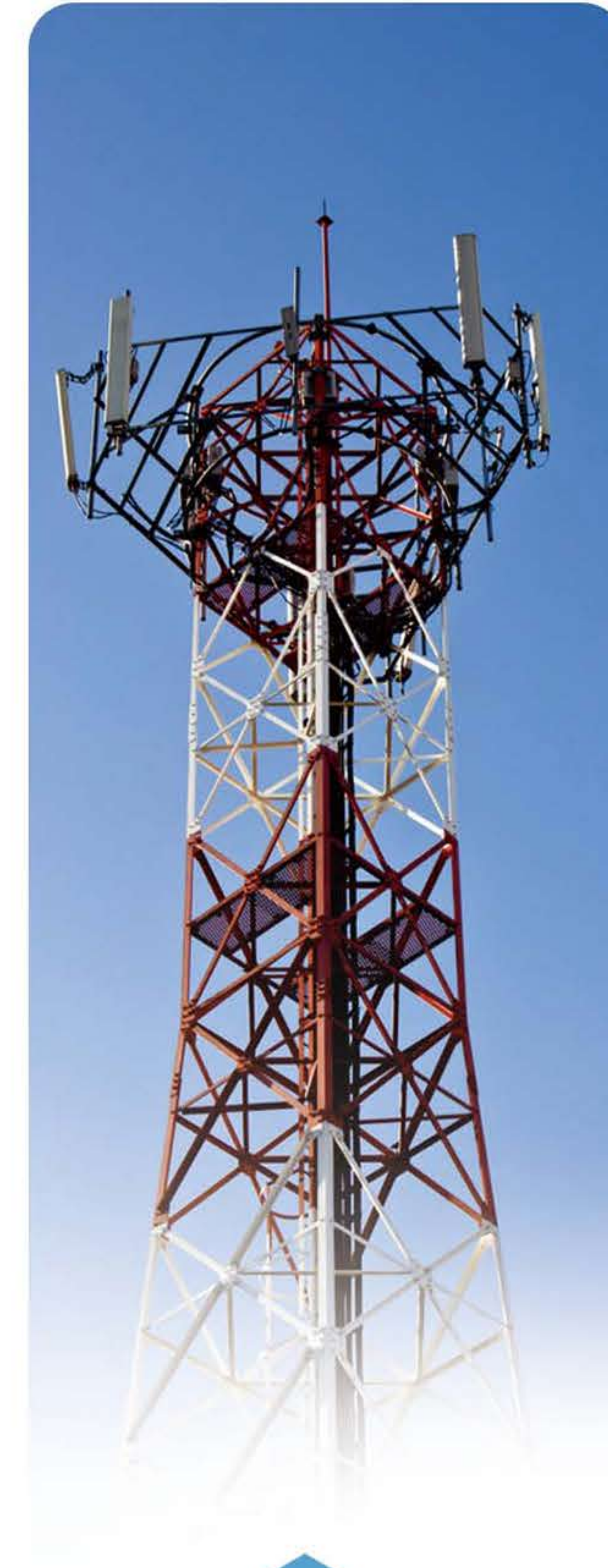
Automotive Electronics

ACU (Airbag Control Unit)
GPS Car Navigators
TPMS (Bluetooth)
Tire Pressure Monitoring Systems
ABS (Anti-lock Braking System)
Electronic Throttle Bodies
Car Heating Controllers, etc.



Rail Transit

Beijing Subway Lines 6, 8, 14
Changping Line and Shenyang Subway
Chongqing Subway
200km/h and 300km/h High-speed Trains
Control Systems and Terminals for EMUs
Electronic Equipment, etc.



Industrial & Communication

Voice Announcement Systems
Warming Blankets,
Inertial Navigation Systems
Inflatable Ring Main Units
Eco-friendly Gas Cabinets
Wireless Communication Equipment
Instruments and Meters
Office and Teaching Equipment, etc.



New Energy

Wind Energy
Solar Energy
New Energy Products
Energy-saving and Environmental
Protection Equipment
Solar Photovoltaic Products
Intelligent Control Systems
Charging Piles, etc.



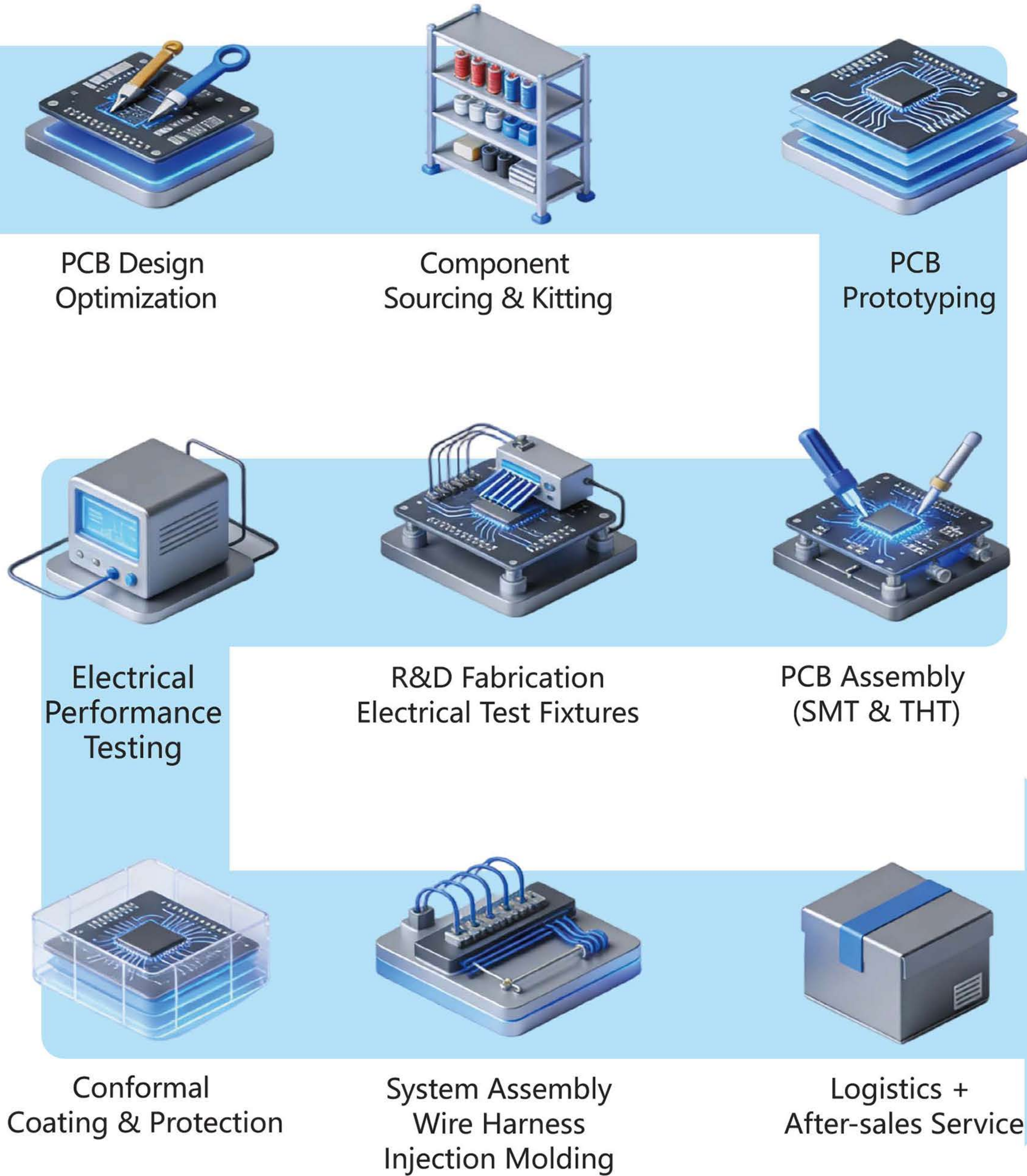
Smart Devices & IoT

Drones
Robots
Intelligent Manufacturing Equipment
Smart Home Devices
AI Consumer Electronics
IoT Products
Wearable Devices, etc.



Military Products

Aviation
Aerospace
Measurement and Control Products
Data Acquisition, etc.
Circuit Control Boards, Components,
and Complete Machines



8-Hour Quick Turn Fabrication

Rapid delivery of prototype boards after material preparation

Worry-Free Turnkey Solution

Share your requirements —we handle the rest

Comprehensive Board Types

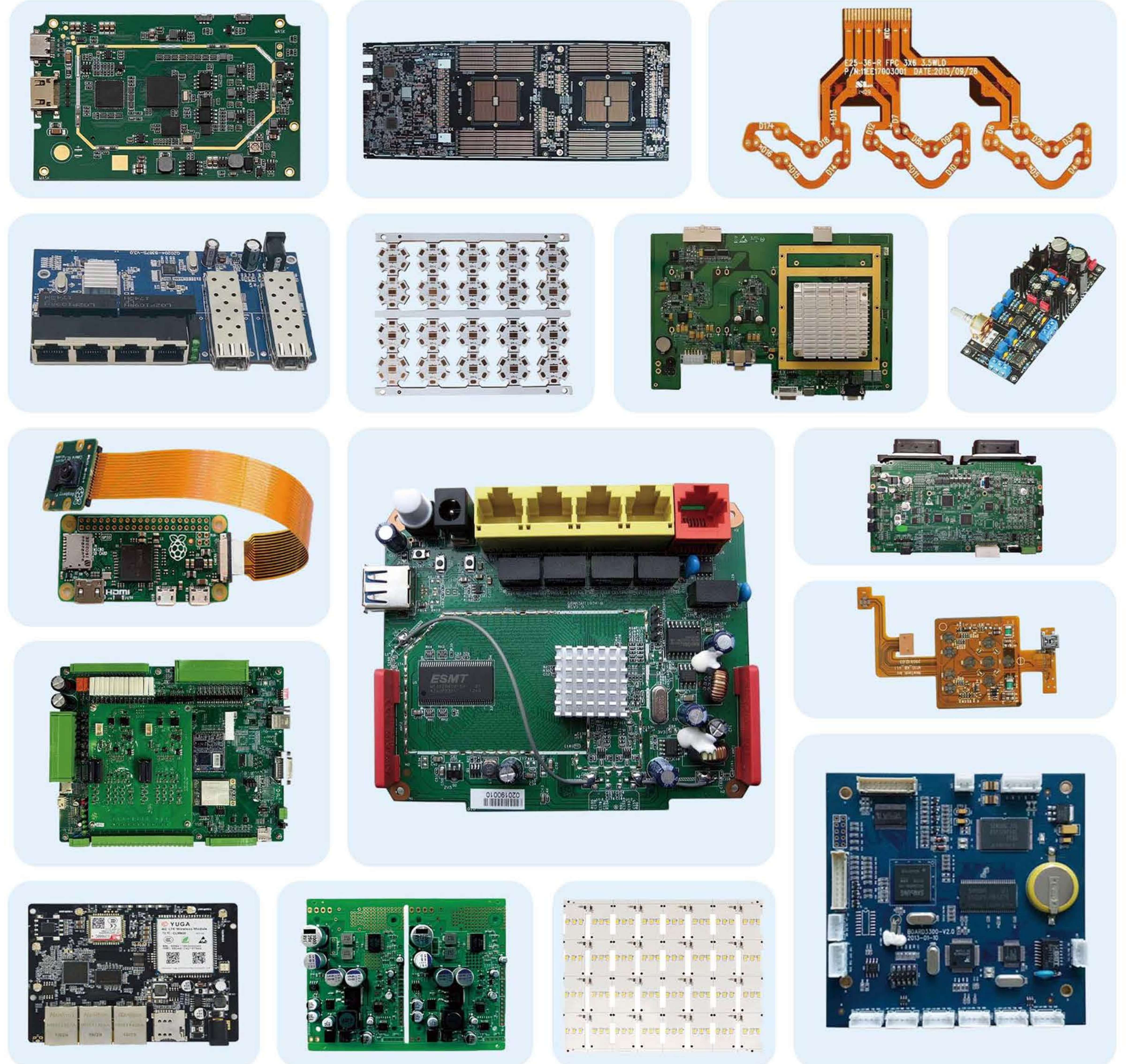
Rigid | Flexible
Irregular Shapes|FR-4
High Tg | Metal Base
High Frequency Materials

High Precision Capability

HDI Blind Vias
High Frequency & High Speed
Thick Copper
Multi-level Impedance Control
Resin Plugging | BGA | QFN

Stable Production & Delivery

Rapid Prototyping
High-Mix Low-Volume
Medium to High Volume
Mass Production





HMLV
(High-Mix, Low-Volume)

Short
Lead Time

On-Time
delivery

Quality Assurance System

System & Policies + Process Control +
Data Management + Corporate Culture

Customized Delivery Capability

Covering the entire process from prototyping, small-batch trial production to mass production. Flexibly adapting to orders with different requirements and cycles, achieving a precise match between production rhythm and customer needs

Modular Units

Flexible Response
New Product Introduction &
Process Upgrades



High Automation

Reduce Manual
Intervention
Improve
Consistency



Rapid Changeover

Rapid Line
Changeover &
Agile Response



Automatic Scheduling

Smart
Automated
Scheduling



Intelligent Dispatching

Real-time Monitoring,
Handling Order
Changes & Rush Orders



System & Certification

ISO 13485,
IATF 16949, etc.
International standard
quality systems ensure
compliance throughout
product design
and manufacturing



Full Process Control

Full-process quality control
from IQC, SMT, AOI,
FCT to OQC to
effectively intercept defects



Data Traceability

End-to-End Traceability
via MES + ERP
Full traceability of
component batches
process parameters and
test records based on
customer requirements

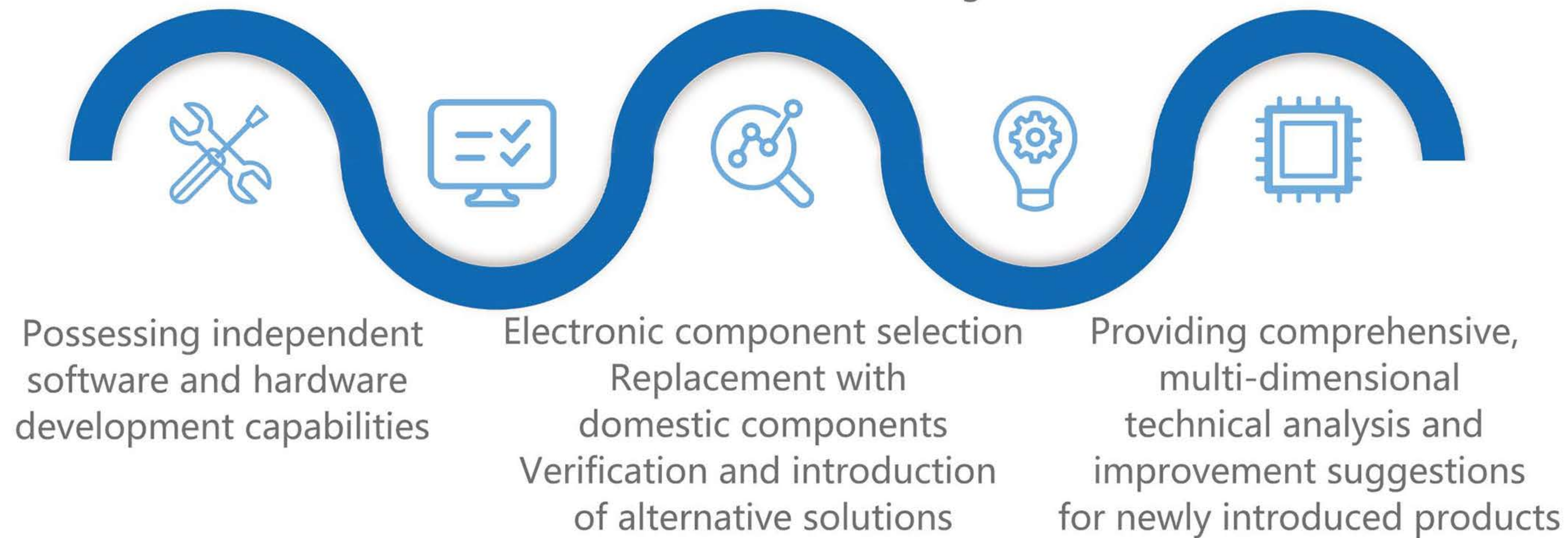


AUDIT Service

Self-Inspection &
Layered Audits
Build strong quality defenses
with rapid issue response
Continuous improvement to
ensure reliable delivery

Senior Technical Team with Professional Expertise

Self-developed 3000 units of Test Fixtures and Platforms Providing overall technical solutions according to customer needs



Providing Overall Technical Solutions

SOFTWARE

- Test Software
- Embedded Development
ARM, FPGA
- Code Review
- Function Verification

**Independent
Software &
Hardware
Design
Capability**

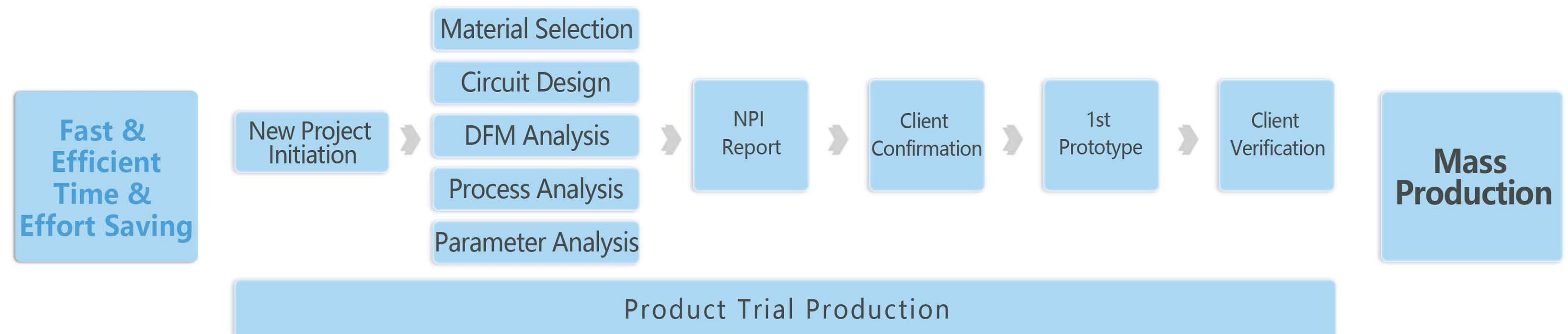
HARDWARE

- Raw material selection / Domestic substitution
- PCB layout design
Layout design, Signal simulation,
Stack-up design, Impedance matching
- EMC design
- DFMA assessment

Before Introduction



After Introduction



Providing Customized Tooling for Customers, Three Lines of Defense for Quality

3,000+ Custom Test Fixtures Developed

First Line of Defense

Raw Material Incoming Performance Testing Tooling

Eliminate Defective Products at the Source
Strictly Guard Incoming Inspection Checkpoints



Second Line of Defense

PCBA Functional Testing Tooling

Detailed Functional Tests
Ensure 100% Product Qualification



Third Line of Defense

Finished Product System Functional Testing Platform

Whole Machine Function and Specification Testing
Rigorous Testing Ensures 100%
Compliance Before Shipment



Global Selected Suppliers Highly Resilient Supply Chain

Diversified Global Layout + Localized Industrial Clusters
Ensuring Rapid Response
Dynamic Cargo Allocation + Safety Stock Reserves
Effectively Avoiding Supply Risks

Rochester
Electronics

ARROW ELECTRONICS, INC.

FUTURE
ELECTRONICS

SEKORM 世强

AVNET

P&S 力源芯城
您身边的电子元器件仓库

MOUSER
ELECTRONICS

云汉芯城

DigiKey

RS

立创商城
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SAMSUNG

Panasonic

NXP
恩智浦半导体

muRata
INNOVATOR IN ELECTRONICS

TE
connectivity

OMRON

Refined Material Management Ensuring Accurate Usage

Material ID Card Incoming Material Traceability

Each material is assigned an "ID card" recording comprehensive information and testing methods.

Production Site Distribution & Error Proofing

Precise kitting via Work Order + BOM
Multiple checks ensure zero errors during line changeovers
No missed material loading & controllable consumption.



Smart Warehousing Refined Control

4-level bin management based on material attributes
Independent warehouses for customer consigned materials
Strict FIFO execution
Clear system records for inbound/outbound.

Obsolescence & Consumption

Closed-loop Management

Regular inventory checks on obsolete materials
Mandatory return of defective/extra materials
Precise attribution of consumption causes.



Coating

Manual Coating:
Brushing, spraying, dipping, etc.

Fully Automatic Coating:
Precise control of coating area and thickness
Meets requirements for various specifications.



Potting

Single & Dual-Component Potting
Meets IP67 waterproof standard.

Applications:
Sealed protection products/waterproof/moisture-proof products insulation products, etc.



Underfill

Targeted bottom filling for BGA chips.

Up to IP67 waterproof rating.
Effectively reduces impact caused by CTE mismatch between chip and substrate or external forces.



Wire Harness & Assembly

Custom Various Wire Harness Cables and Assembly Integrations

Customized on Demand

Various wire harness and cable assemblies, complete machine assembly



Efficient Mass Production

Fully automatic wire harness production line for rapid delivery



Various Specifications

Full specifications including single-core, multi-core, flat cables, twisted pairs, multi-stranded high-voltage cables, etc.

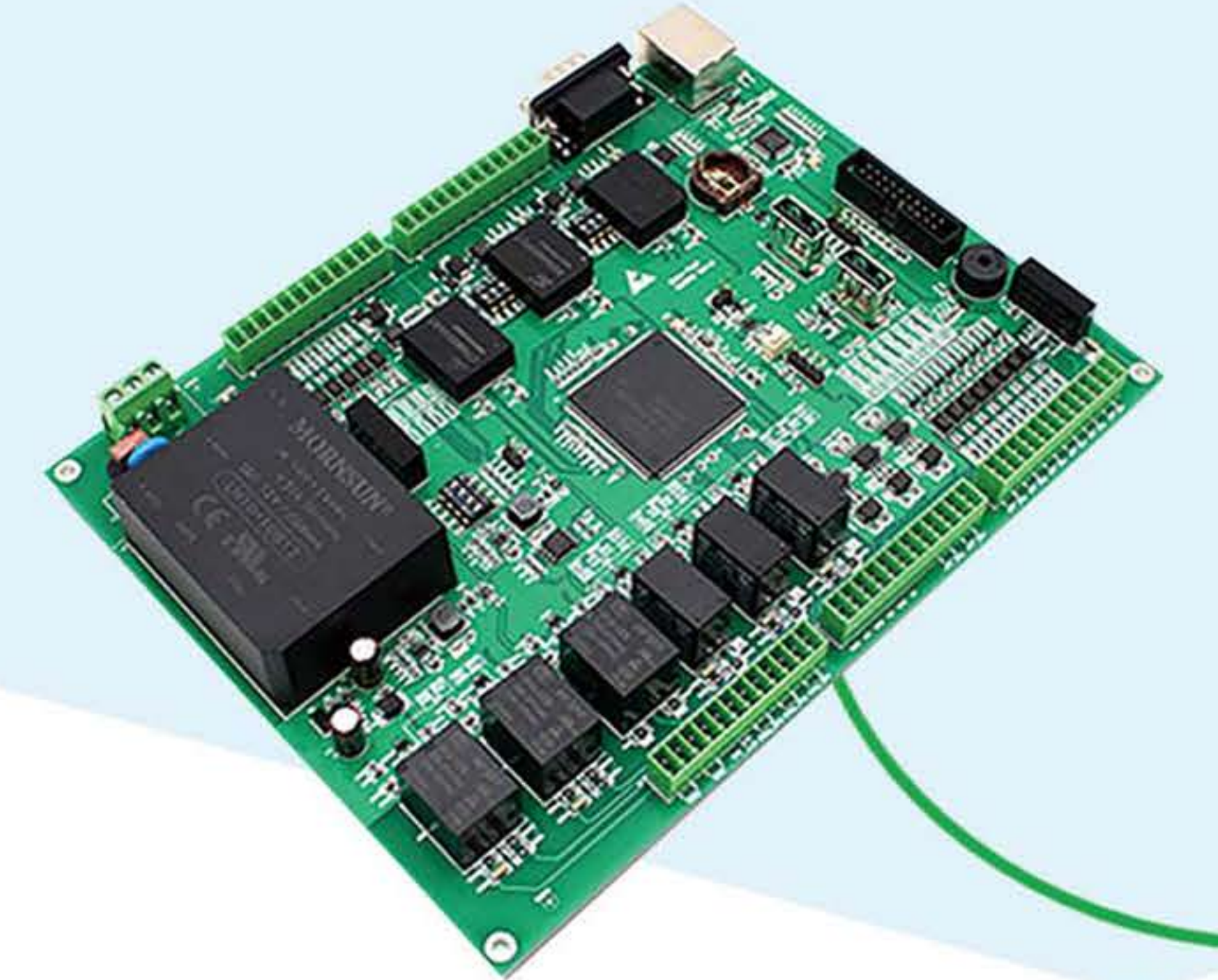
Quality Assurance

Self-developed finished product testing fixtures and platforms to ensure every wire harness is stable and reliable

Reliability Testing



Strict Testing Standards to Build Reliable Quality



100% Factory Acceptance Guarantee



X-Ray

Non-destructive testing for BGA Solder joint voids Internal defects



Harmful Substance Detector

Rapid screening RoHS, etc. Harmful element content



Salt Spray Test Chamber

Simulate Salt spray environment Evaluate corrosion resistance



Vibration Test Bench

Simulate transportation vibration Test circuit board vibration resistance and solder joint firmness



High/Low Temp & Humidity Aging Chamber

Temperature and humidity cycling Test long-term stability and weather resistance



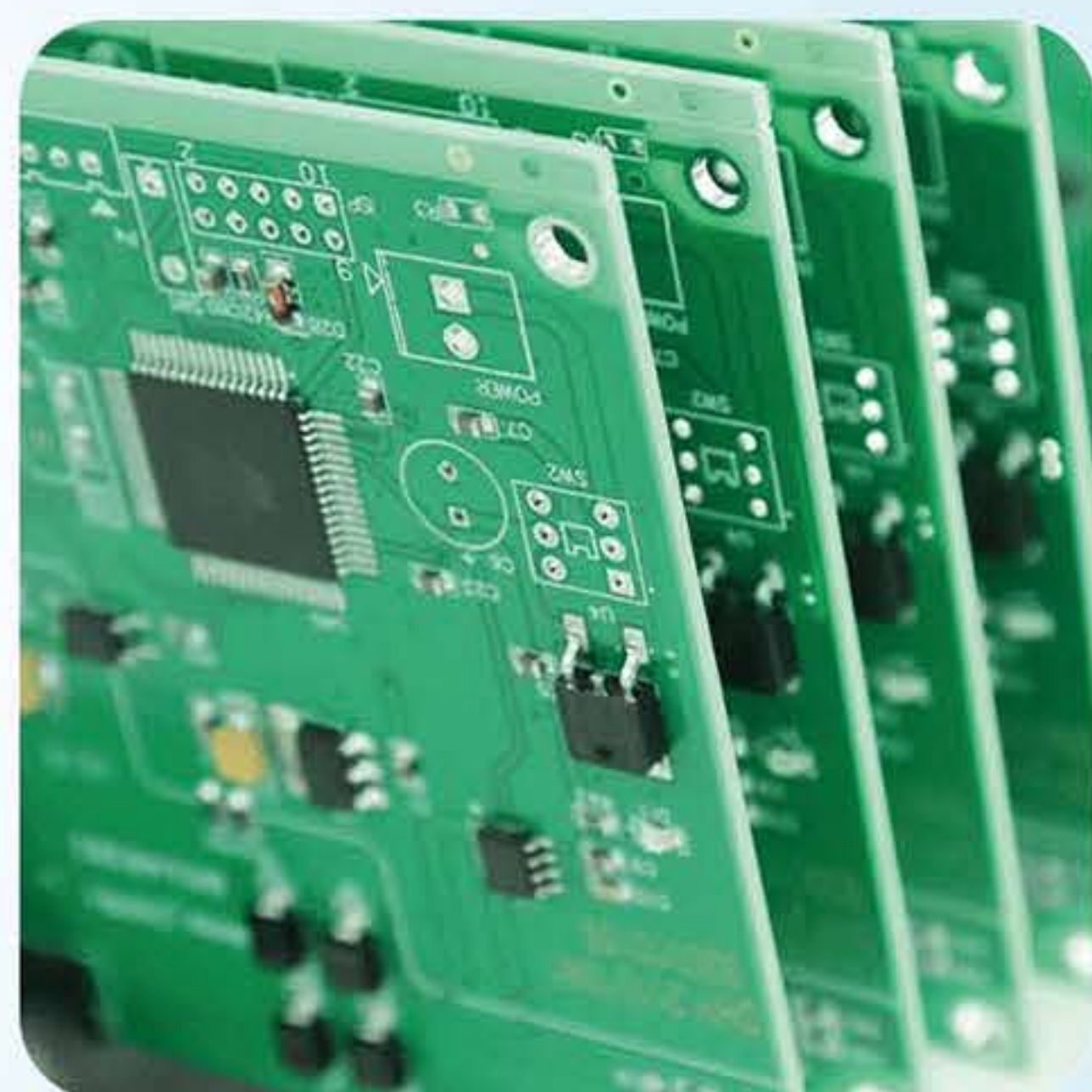
High Temperature Aging Room

Simulate high temperature environment Test products Temperature resistance and stability



Beyond Delivery: Full Lifecycle Quality Commitment

**100%
Factory
Qualified**



**Product
Full
Lifecycle
Service**



**Product
Whole
Process
Traceability**



**Engineer
On-site
Service**



Precision Manufacturing Empowering Long-Term Customer Success



Supporting China's Space Dream

Provided dedicated non-gravity medical infusion equipment circuit control boards, components, and complete machines for "Tianzhou-2 cargo spacecraft"



Spring Festival Gala Dexterous Hand

Provided robot and dexterous hand circuit boards for the embodied AI leading enterprise "Lingxin"



"Peace Ark" Hospital Ship

Provided ventilator circuit control boards, components, and complete machines for the "Peace Ark" hospital ship



Anti-epidemic Medical Equipment

Provided circuit control boards, components, and complete machines for invasive ventilators, therapeutic non-invasive ventilators, and high-flow respiratory humidification therapy devices for Leishenshan, Huoshenshan, and domestic and overseas hospitals



Health Guardian Vehicle

Provided negative pressure ambulance airbag controller electronic control components for FOTON Motor

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East Beijing Yanjiao Economic and
Technological Development Zone
- **Tianjin Production Base:**
Jingjin Chuangzhi Industrial Park
- **Chongqing Production Base:**
Zhongnan Gaoke Beibei Smart Tech Port



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Made-in-China

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