

# Advancing Your Products Realization



**Unigen™**  
**Company Profile**

# History



1991

Founded



1995

Started manufacturing OEM in DRAM (40K ft<sup>2</sup>)



2003

First launched EMS, started in the wireless market



2008

EMS expanded to networking & storage, and IoT



2011

EMS expanded into automotive, embedded, robotics



2012

Opened Unigen Hanoi, Vietnam (127K ft<sup>2</sup>)



2017

Unigen headquarters moved to Newark, CA (127K ft<sup>2</sup>)



# Unigen Group Global Footprint

**Unigen**

**Headquarters**

Silicon Valley



## Headquarters

- EMS
- Design & Engineering
- Supply Chain Management
- Sales/ Marketing

## Vietnam

- EMS
- Design & Engineering
- Supply Chain Management
- Sales/ Marketing

## Taiwan

- Sales
- Regional Support

## Shenzhen

- Sales
- Regional Support

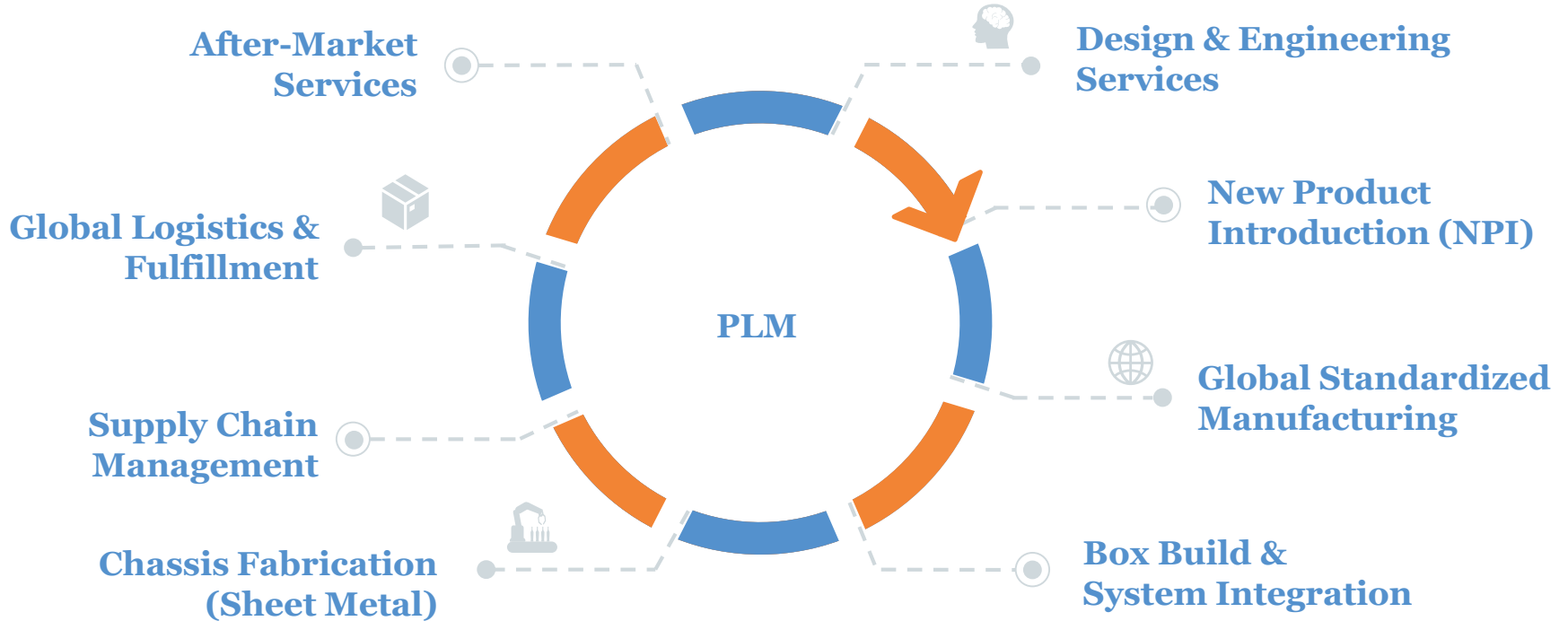
## Hong Kong

- Hub

## CORAZA Malaysia

- Sheet Metal Design & Engineering
- Chassis Fabrication
- Build-to-Print Customization Services

# End-to-End Services



# Design & Engineering Services



## **Design for Excellence Solutions**

We are committed to attaining the future by providing DFM, DFA, DFT, DFP services.



## **Joint Design Manufacturing**

Unigen helps our customers to shorten the time to market by providing customized solutions while reducing costs.



## **Reliability Demonstration Test**



## **Test Development & Validation Plans**

Unigen has years of experience in developing any test and validation plans to meet our customers' needs.

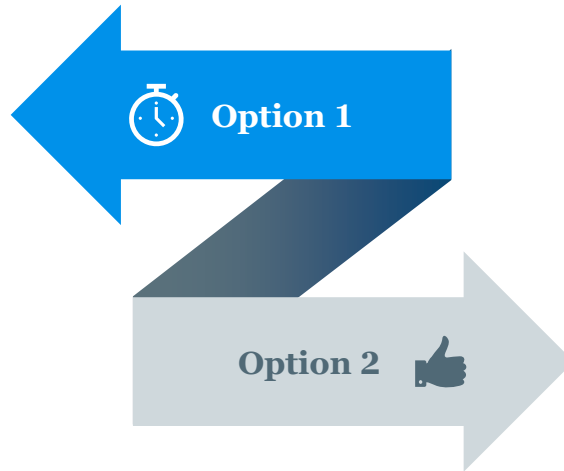
# New Product Introduction Support

To Accelerate Time to Market Process



## Quick Turn Prototyping

We are in this together. From procurement to setting up production, our experts are here to expedite your products to the market.



## Standard NPI

Silicon Valley DNA elevates our customized solutions. We are committed to providing the best quality and attaining the future with you.

# Global Standardized Manufacturing Systems

## Standardized Manufacturing System

A unified manufacturing management platform provides consistent quality outputs.



## Global Integrated Information System

An innovative shared information system enables the same procedures implemented globally.

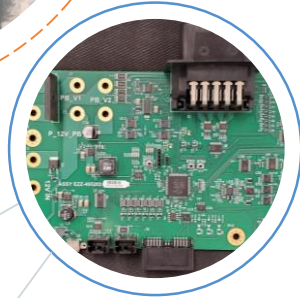


## Business Continuity Plan

Unigen can seamlessly transfer manufacturing capacity from the USA to Vietnam or vice versa to minimize operations risk.



# Global Manufacturing Capabilities



## Global Production Capacities

PCBA & SMT, box build, chassis and rack level assembly in Newark, CA and Hanoi, Vietnam



## Conformal Coating

Protection against moisture, dust, corrosion, chemical contaminants



## From Component to System Level Traceability

Processing and tracking components and boards within the factory



## LVHM and HVLM Production

Flexible manufacturing planning to fit various customer demand types



# Industrial Grade Testing Standard



## Functional Test Development

Unigen has years of experience in developing any test and validation plans to meet our customers' demands.



## Thermal Chamber Burn-in

To improve quality, forecast life expectancy, and increase customer confidence.



## ICT and RDT

Easily detect manufacturing defects and make sure the product reliability can meet the requirement.

# Supply Chain Management



- Procurement
- Vendor MGMT
- Negotiation
- Logistic MGMT
- Warehousing
- Inventory MGMT



- BOM Risk Assessment
- Component Lifecycle MGMT
- ECN Pre-alert
- AML Suggestion
- Regulatory Checking



- Global AVL
- From Plastic, Sheet-metal, PCB, Cable Hardness to electronic components
- 10+ Global Sourcing Specialists



- Strong Industry Connection
- VMI and Bonded Program
- API Quick-Quote Process
- Supplier Performance Review System

# Global Services & Logistics



**Inventory  
Management**



**Warehousing**



**Global  
Logistics**



**Global  
Fulfillment**



# After-market Services

**Unigen supports your corporate's social responsibility goals.**

## Processing R2 Certification

Implement the highest standard process to wipe out data on hard drive and any storage devices safely.

## Sustainable

We work together to protect the environment.



## Onsite Packing & Logistics

We offer outdated equipment removal and onsite appraisals for products services.

## Maximize Your Profits

We sell or purchase your outdated equipment and provide reasonable price.

# Program Management

**One-point contact**



## **Dedicated Customer Focused Team (CFT)**

To provide world-class program management to the customers.



## **Specializing in incubating new product introduction**

To guide and support our customers every step away from NPI to MP.

# Real-time Information Support

More information, higher efficiency



## Real-time Transparent Information Monitoring through EDI/API

- Working order
- Work-in-process
- Finished goods inventory
- Components inventory



## Business Intelligence JSON File Data Feed to Review and Analyze Business Data

- Customer PO history
- Unigen sales order history
- Invoice history
- Shipment history

# Total Quality Management

## Continuous Quality Improvement System

### Act

- Closed-loop process
- Facilitate Kaizen events for process improvement
- Continually improve customer experience
- CAPA

### Plan

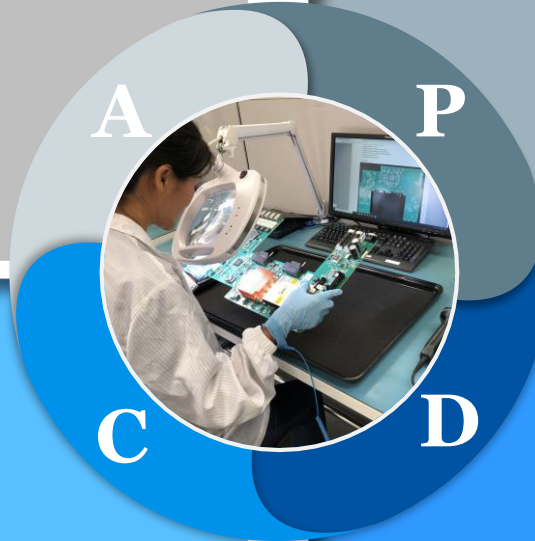
- Vendor Survey/ Audit
- Vendor Quality Management
- Production Part Approval Process
- Incoming Inspections

### Check

- Solve the quality issues support
- Incoming and Outgoing inspection
- Regulatory Compliance
- Data Driven BI tool – Data Analysis
- NCMR

### Do

- Process Control & Validations (IQ, OQ and PQ)
- In-process Quality Control
  - Real Time Quality Alert
    - Poka-Yoke
    - Traceability



# Certifications

**For over 30 years, we are continually committed to pursuing excellence in the quality of products and services to deliver solutions of the highest standard.**

ISO 14001 :2015



ISO 13485:2016



ISO 9001:2015



**2020**  
Processing IATF 16949 :2016





# Application Story

## Industry

Indoor agriculture (vertical farming) company based in S.F.

## The Challenge

Unique PCB design

- Screen printing and pick & place - **PCB length over 30"**
- Thermal profile - **Aluminum clad PCB** for heat dissipation
- Components shifting - Consign fab with silkscreen misprint

## Unigen Solutions

- Invested Fuji Aimex III pick & place machine to handle large form PCB
- Unique thermal reflow profile that is tailored made specifically (with multiple engineering experiments)
- Engineering continuously effort on stencil design and thermal profile fine-tuning based on yield rate for SMT yield optimization

# Application Story



## Industry

Medical product drone delivery company based in S.F.



## The Challenge

- **From NPI to mass production:** Launched NPI and accelerated production of multiple PCBA/Top Level assembly
- **Control the weight of a product**
- Critical alignment PTH blind mates
- Challenging RF shields design on wingtip PCBA
- Conformal coating for all PCBs



## Unigen Solutions

- Support design with DFM/TEST/tooling from NPI to reduce multiple rev change
- Manage the amount of potting and conformal material
- Custom design alignment tools
- Custom design fixtures to install RF shields
- Setup in house conformal coating process to reduce cost by 50%

# Application Story

## Industry

Internet security customer

## The Challenge

- Fiber optic bend radius – constrain by customer PCB and mechanical design which causes higher fallout rate due to handling
- BOM life cycle management

## Unigen Solutions

- Engineer found a solution by having fiber optic mfg. to modify current product that have more bend tolerance which decrease fallout rate without having customer making design change.
- IHS Markit for BOM for OBS/EOL analysis as well as RoHS and REACH Compliance submission



Unigen™

Thank you

We are ready to bring your ideas to life.