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# Sunshine **PCB** Penang

## Company Profile

November 2025

# Worldwide Reach



## Frontier Sales & Tech Support

Texas, USA  
Chemnitz, Germany



## Factory Quick turn & Prototypes

Remscheid, Germany  
Penang, Malaysia  
Shenzhen, China



## Factory Mass Production & Automation

Jiujiang, China  
Zhuhai, China (in progress)  
Penang, Malaysia (in progress)

# Factories

## Sunshine Shenzhen HMLV Technology Center



| Site Focus            | R&D/Prototype/<br>QTA/HMLV                                                                                     |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| Floor Area            | 20,000 m <sup>2</sup> (215K ft <sup>2</sup> )                                                                  |
| Layer Count           | 2L - 70L                                                                                                       |
| Technologies          | HDI, Stacked Microvias<br>Low Loss Laminates,<br>Advanced Technology<br>ATE (Load boards,<br>Probe Cards, BIB) |
| Best Lead-Time        | 2-8L: 7 working days<br>10L+: 10-15 work-days                                                                  |
| Benefits to Customers | Technology focus,<br>HMLV support, QTA<br>R&D                                                                  |

## Sunshine Jiujiang Volume Production Center



| Site Focus            | High Mix L/M/H<br>Volume                                                                    |
|-----------------------|---------------------------------------------------------------------------------------------|
| Floor Area            | 145,200 m <sup>2</sup> (1563K ft <sup>2</sup> )                                             |
| Layer Count           | 2L - 42L                                                                                    |
| Technologies          | High Speed Digital,<br>Heavy Copper, HDI<br>Rigid-Flex and Flex,<br>RF Microwave,<br>AL-PCB |
| Best Lead-Time        | 2-8L: 7-10 work-days                                                                        |
| Benefits to Customers | High Volume Support,<br>Transfer from Penang<br>or Germany                                  |

## Sunshine Europe QTA/Prototype Center



| Site Focus            | QTA/Prototype/<br>Sample                                                    |
|-----------------------|-----------------------------------------------------------------------------|
| Floor Area            | 3,300 m <sup>2</sup> (35 K ft <sup>2</sup> )                                |
| Layer Count           | 2L – 20L                                                                    |
| Technologies          | Rigid PCB 2-20L,<br>Sequential Lamination,<br>Heavy Copper,<br>Rigid-Flex   |
| Best Lead-Time        | 2-6L: 5 working days<br>8-16L: 8 working days                               |
| Benefits to Customers | Early Engineering<br>Involvement, Frontline<br>support, Domestic<br>Service |

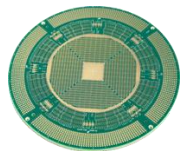
## Sunshine Penang QTA/HMLV Center



| Site Focus            | QTA/Prototype/<br>HMLV                               |
|-----------------------|------------------------------------------------------|
| Floor Area            | 2,800 m <sup>2</sup> (30K ft <sup>2</sup> )          |
| Layer Count           | 2L - 16L                                             |
| Technologies          | Rigid PCB 2-16L,<br>RF Microwave,<br>Hybrids, Cavity |
| Best Lead-Time        | 2-8L: 5-10 work-days<br>10L+: 15 working days        |
| Benefits to Customers | QTA Service, South<br>East Asia PCB option           |



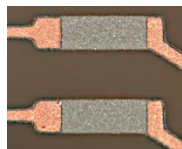
# Technology & Innovation



ATE  
Semiconductor  
Test Boards



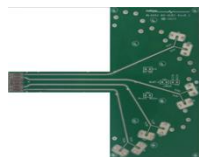
ELIC  
Every Layer  
Interconnect



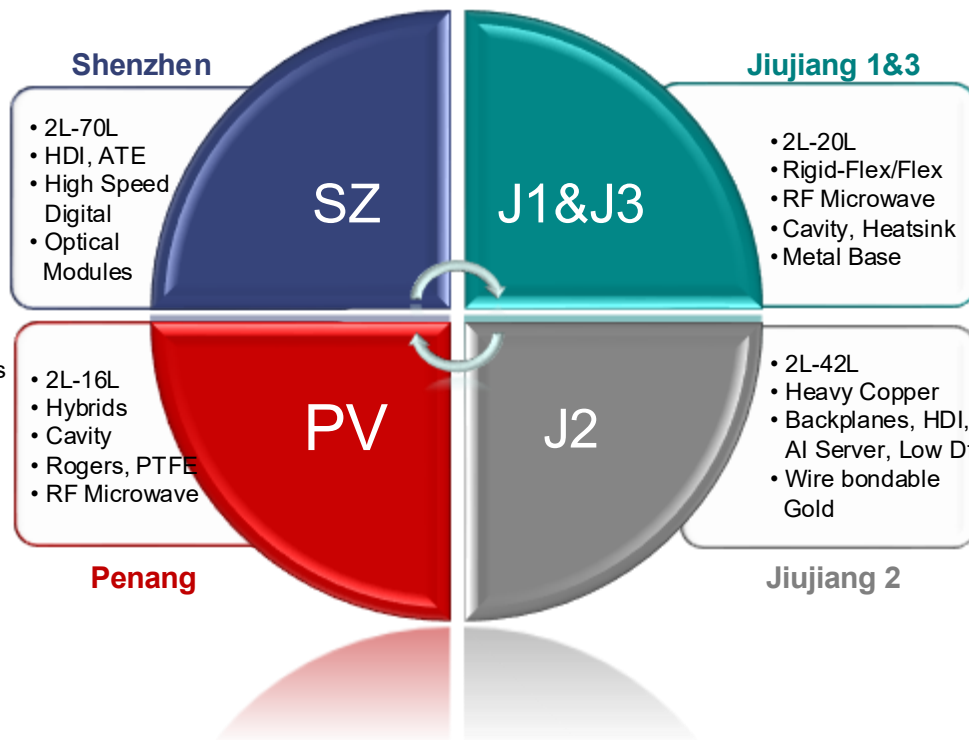
Embedded Passives  
Buried Resistors  
Buried Capacitors



RF Microwave



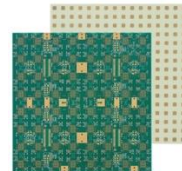
High Speed



High Speed  
Low Dk/Df



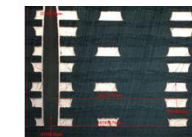
RF  
Microwave



Rigid-flex



Heavy  
Copper



Thermal  
Management  
Solutions



# Penang, Malaysia

## Quick-turn & Low Volumes

**Rigid FR4**  
**2-16** Layers

**RF Microwave**  
**2-10** Layers

Founded **1989**  
Acquired **2023**

**100**  
Employees



**5-10** Days  
QTA  
**2 to 6** Layers



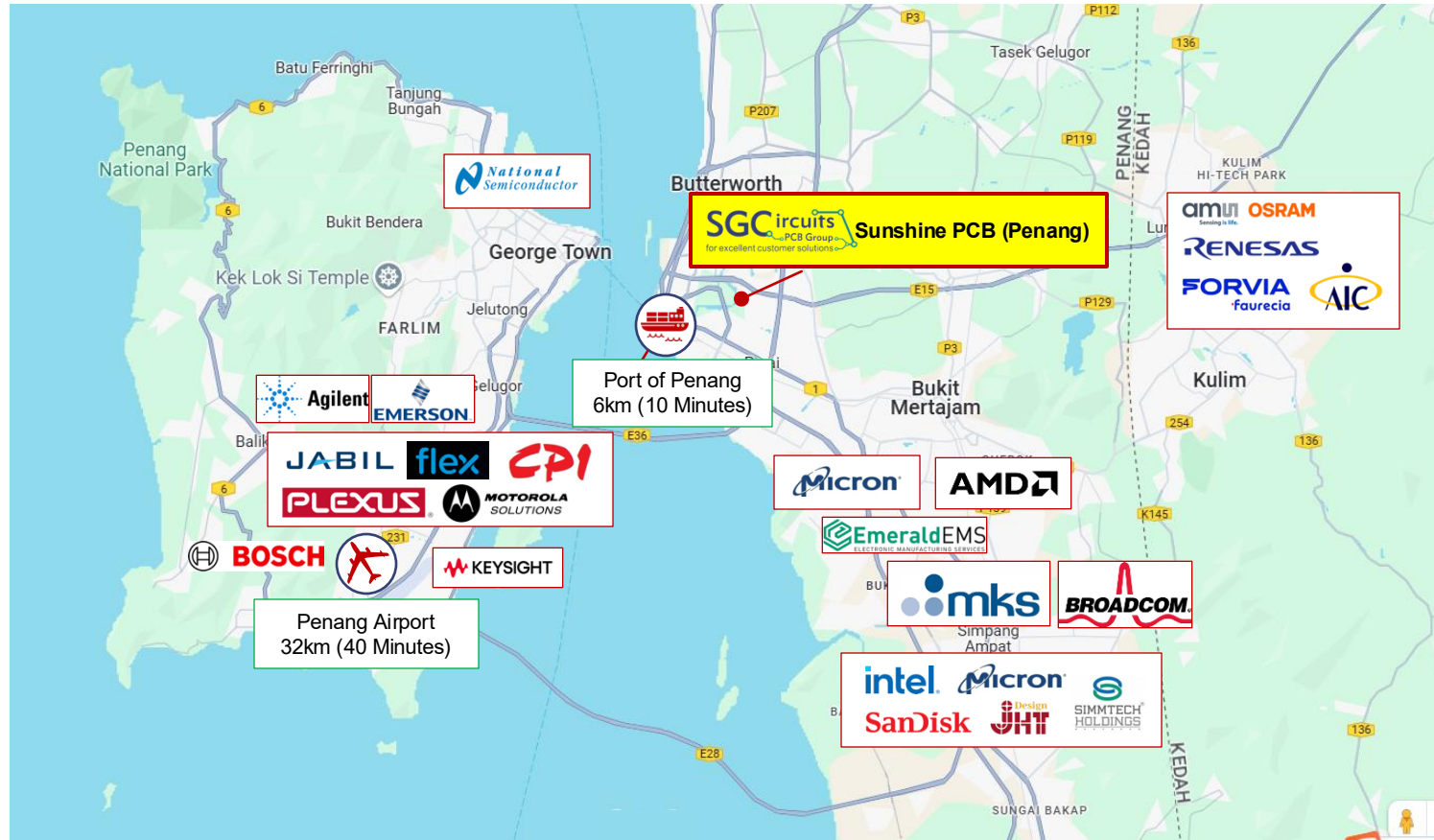
**6 Surface Finishes**

ENIG, LF-HAL, OSP, Ag  
Hard Au, Soft Au

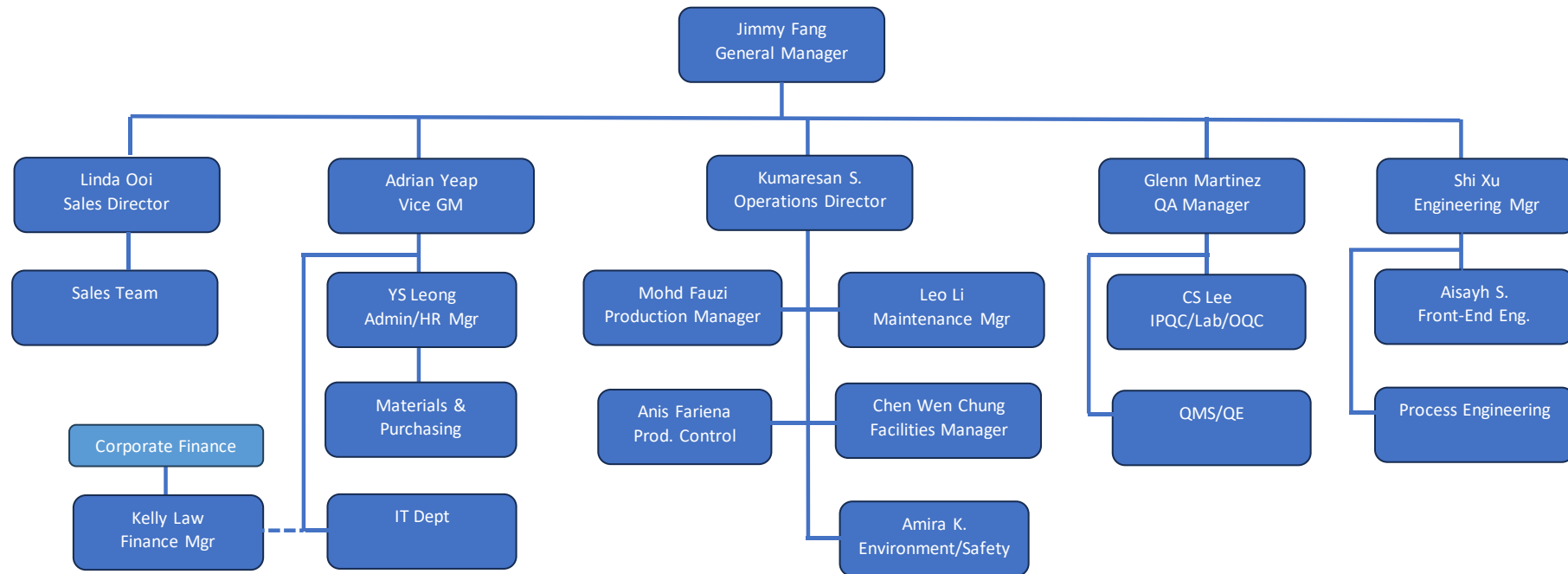
**2,800 m<sup>2</sup>** Floor Space  
**2,500 m<sup>2</sup>** Monthly Capacity

>> A short video of Penang plant can be found here (<https://youtu.be/g-Yp3lCsYa4?si=CGr7TuaVAHt1Y314>).

# Penang, Malaysia



# Penang Org Chart





# Current Capabilities

## Specialist in RF Microwave PCB's and Rigid PCBs

- 2 to 16 Layer Rigid, PTH Technology
- Blind vias, Sequential lamination, Mixed Dielectrics
- Cavities (pockets for RF waveguides), Castellated
- Impedance Control, Back Drill
- Copper Weights: 3, 4 oz for IL and OL
- Min/Max Thickness: .008" to .125" [.20 - 3.18mm]
- Min. Line & Space: .004"/.004" [.10/.10 mm]
- Minimum hole size (finished):
  - 0.2 mm for board thickness up to 1.6 mm (8:1 AR)
  - 0.3 mm for board thickness up to 2.4 mm (8:1 AR)
  - 0.4 mm for board thickness up to 3.2 mm (8:1 AR)
- Soldermask: Gloss/Matte, Green, Blue, Black, White, Red
- Surface Finishes:
  - ENIG, OSP, Immersion Silver, LF-HAL, Hard & Soft Gold
- ISO-9001: 2015 certified

### **MATERIAL OPTIONS**

#### **Rogers**

- RO3000 Series
- RO4000 Series, RO4350B, LoPro, RO4360G2
- RO4532, RO4533, RO4534, RO4835
- RT/Duroid 5870, 5880, 6002, 6006, 6010LM, 6035HTC
- TMM10, TMM10i

#### **Taconic/AGC**

- RF35, RF35A, RF35HTC, RF35TC, RF60
- TLY, TLC, TLX, TLE Series, TSM-DS/Fast-Rise

#### **FR4**

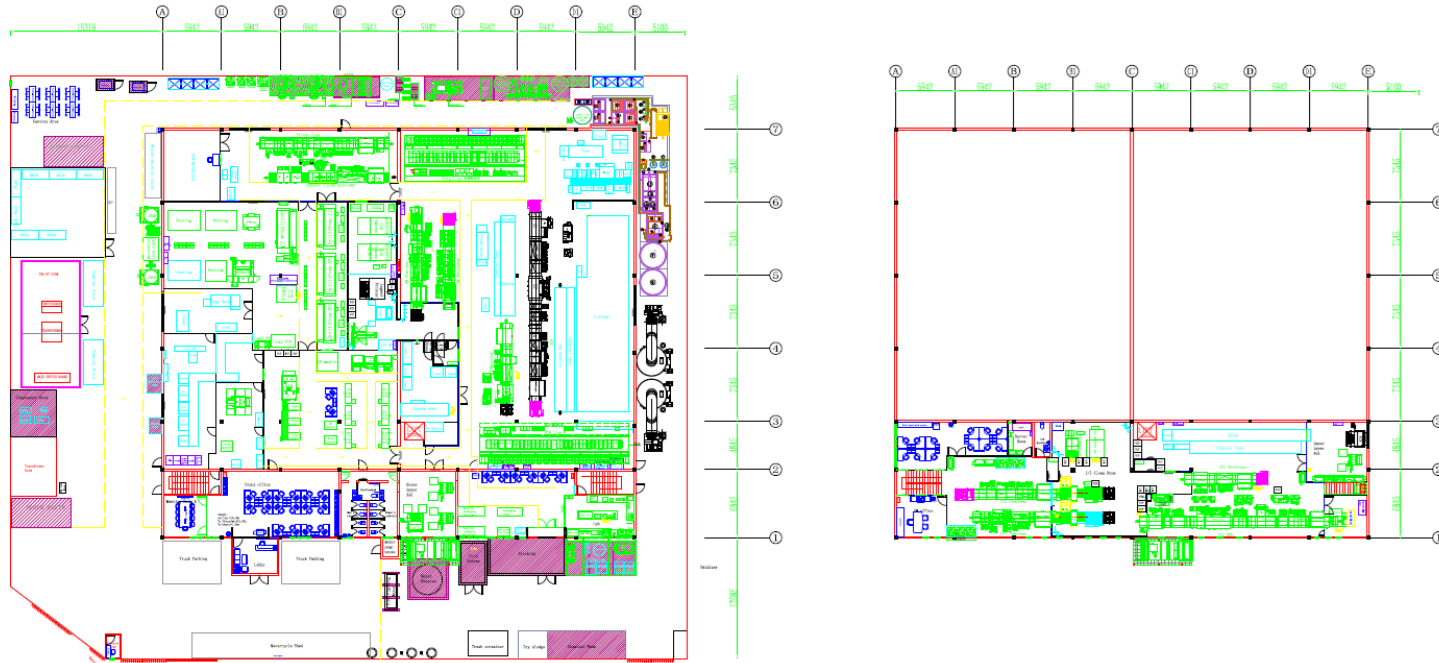
- TU768, 185HR, 370HR, VT-47, IT-180A, others

#### **High Speed Digital**

- TUC, Isola
- EMC, ITEQ, NanYa

#### **Extensive UL and Material Portfolio**

- Contact Sales Engineer for material not listed above



# Equipment



AOI



LDI / DI



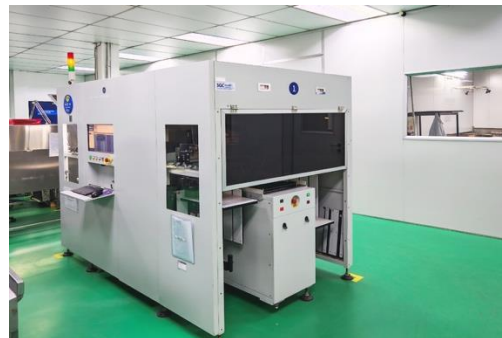
ENIG



Developer

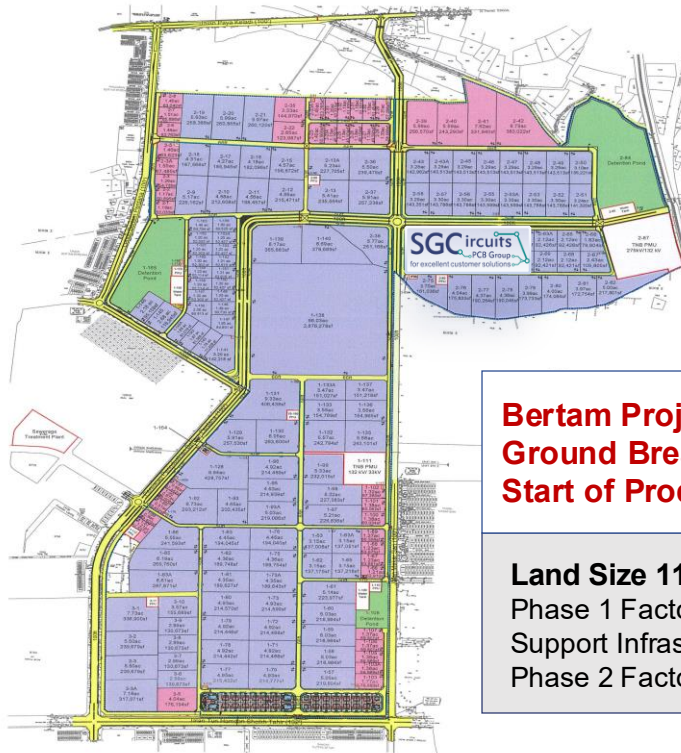


E-Test (Flying Probe)



AVI

# Future Bertam Facility



**Bertam Project in progress**  
**Ground Breaking in Feb 2026**  
**Start of Production in Q1-2027**

**Land Size 112K m<sup>2</sup> (27.6 acres)**  
Phase 1 Factory Area 40,000 m<sup>2</sup>  
Support Infrastructure: 10,000 m<sup>2</sup>  
Phase 2 Factory Area: 40,000 m<sup>2</sup>



# Bertam Factory Plan

**Product Position:** HM-LMV (High Mix & Low/Medium Volume), Advanced PCB's, Rigid-Flex, ATE

**Strategic Applications:** Telecom, Servers, Data Center, Medical Devices, Clean Energy, Industrial Controls



Sunshine PCB Bertam will employ the same state-of-the-art automated intelligent factory model as currently in use in our Jiujiang Plant 2.



**Engineering  
System**  
InPlan/InCAM  
PLM



**ERP**  
SAP  
CRM, SRM, APS



**MOM**  
IMS  
MES, QMS, SPC, EAM



**Intelligent  
Warehouse/Logistics**  
WMS/MCS



**Platform Support  
System**  
eHR, OA, Ding, Document,  
BPM, Report Platform, BI



# Thank You.

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