

# PANJIT International Inc



Sep.

2024

- About PANJIT
- Power Discrete & New Technology Focus
- Automotive



### PANJIT International Inc.

**2023 Revenue: NTD\$ 12.7 Billion (2481.TW)**  
**Product:** IC, MOSFET, SiC, IGBT, Diodes, TVS, ESD, Zener, Bridge, Transistor  
**Application:** Automotive, Medical, Green Energy, High Performance Computing, Consumer, IoT

### MILDEX Optical Inc.

**2023 Revenue: NTD\$ 1.1 Billion (4729.TW)**  
**Product:** Touch Panel, Display  
**Application:** Automotive, IPC, Military

### Champion Microelectronic Corp.

**2023 Revenue: NTD\$ 1.1 Billion (3257.TW)**  
**Product:** Power Management IC  
**Application:** Gaming PC/Adapter, Industrial PC, 5G Power



### ALLTOP Technology Co., Ltd.

**2023 Revenue: NTD\$ 2.4 Billion (3526.TW)**  
**Product:** Connector, F cable, USB-Type C 3.1  
**Application:** Automotive, Medical, Communication, Consumer



# Milestones



**1986**  
Founded 1986  
HQ Kaohsiung

**2000**



- Opened Wuxi factory
- Set up Pynmax Technology

**2003**



- Set up PANJIT Europe

**2001**

**1997**

- QS-9000 certified

- PANJIT IPO in Taiwan

**2005**

- Set up Shenzhen Office

**2006**

- TS16949 certified

**2008**



- Set up PANJIT Korea

**2019**



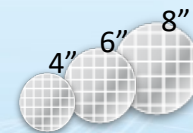
- Established IBU and R&D center in San Jose, US and Hsinchu, Taiwan

**2018**

- IATF16949 certified

**2020**

- 8" wafer fab set up



**2021**



- Set up Xuzhou Factory
- Issued GDR in Luxembourg
- Invested in ALLTOP



**2022**



- Taipei operation center opened.
- Acquired Champion Microelectronic Corp.



**2023**

- Set up PANJIT Japan
- Set up assembly site in Philippines
- IC products launched

**PANJIT**  
SEMI  
CONDUCTOR

# PANJIT Overview

## IDM Design Capability

**PANJIT** semiconductor has been providing its comprehensive range of discrete products to global community for over 38 years. With continuous investment in packaging miniaturization, wafer capacity expansion, R&D in advanced high power discrete solution and IC design capability, PANJIT is the brand name that customers can depend on to be life-long partner of discrete semiconductor components and total solution provider.

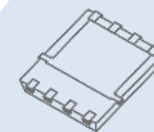
NTD\$ **12.7** Billion  
Y2023 consolidated  
revenue



**6**

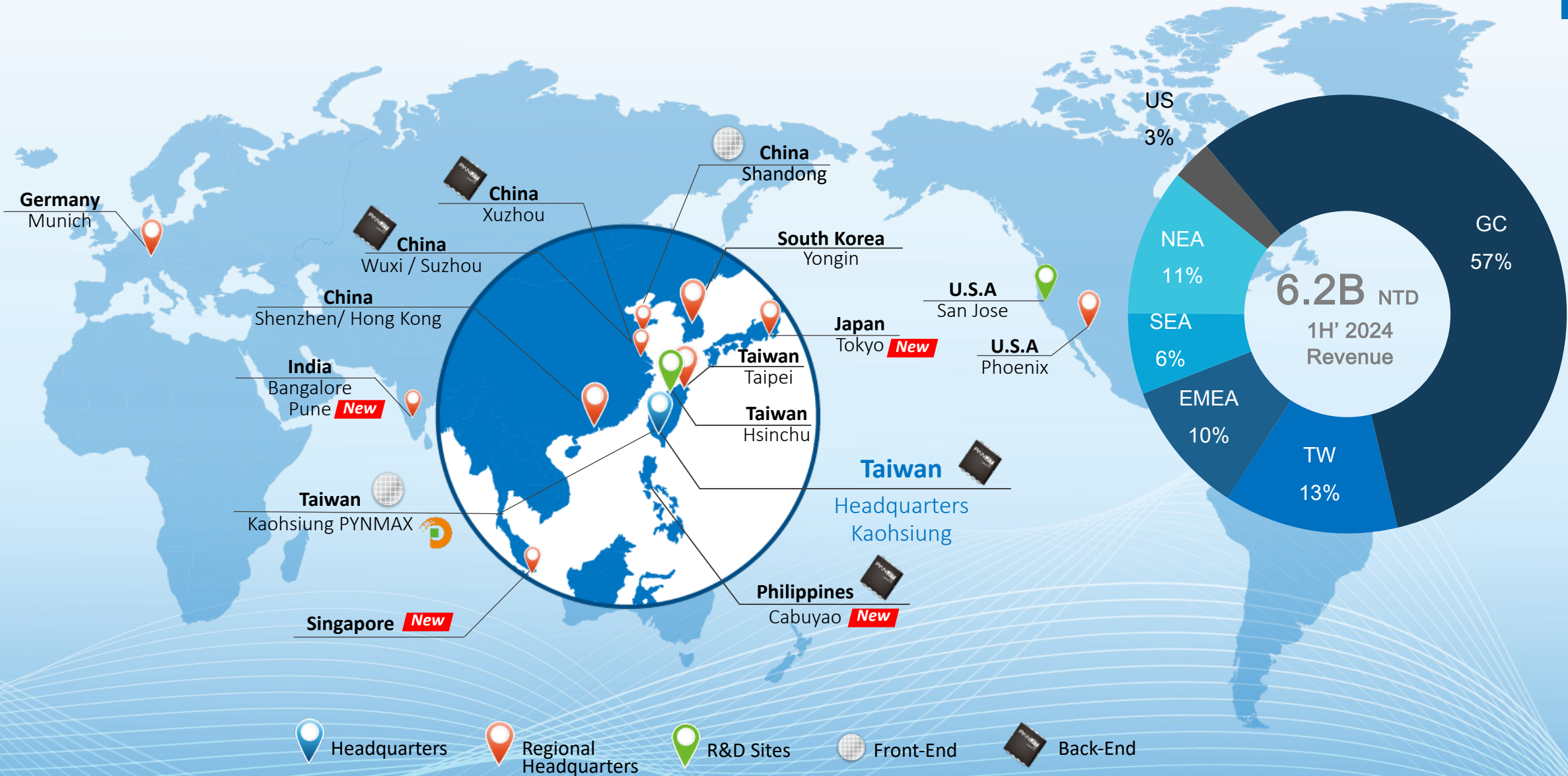
Worldwide Ranking  
\*From Omdia, 2022: Low  
Power Rectifier, >500mA

**3** Frontend  
Wafer Sites



**4** Backend  
Packaging Sites

# PANJIT Global Footprint at a Glance



# Wafer Capacity



4"

**Fab 2**  
Shandong, China

✓ TVS: 30,000 pcs/month



6"

**Fab 1**  
Kaohsiung, Taiwan

- ✓ EPI: 60,000 pcs/month
- ✓ Schottky: 45,000 pcs/month
- ✓ TVS ESD Array: 5,000 pcs/month
- ✓ Zener: 5,000 pcs/month
- ✓ FRED: 5,000 pcs/month
- ✓ LVf Rectifier: 5,000 pcs/month



8"

**Fab 3**  
Kaohsiung, Taiwan

✓ MOSFET/ IGBT: 10,500 pcs/month

# Assembly Capacity

01

## Kaohsiung, Taiwan

Package:

Small Signal Devices/SMD Bridge

Capacity:

2,975 million/month

02

## Wuxi, China

Package:

SMD/Power Package

Capacity:

450 million/month

03

## Xuzhou, China

Package:

Small Signal Device

Capacity:

520 million/month

04

## Cabuyao, Philippines

Package:

SOT-23/DFN3333/DFN5060

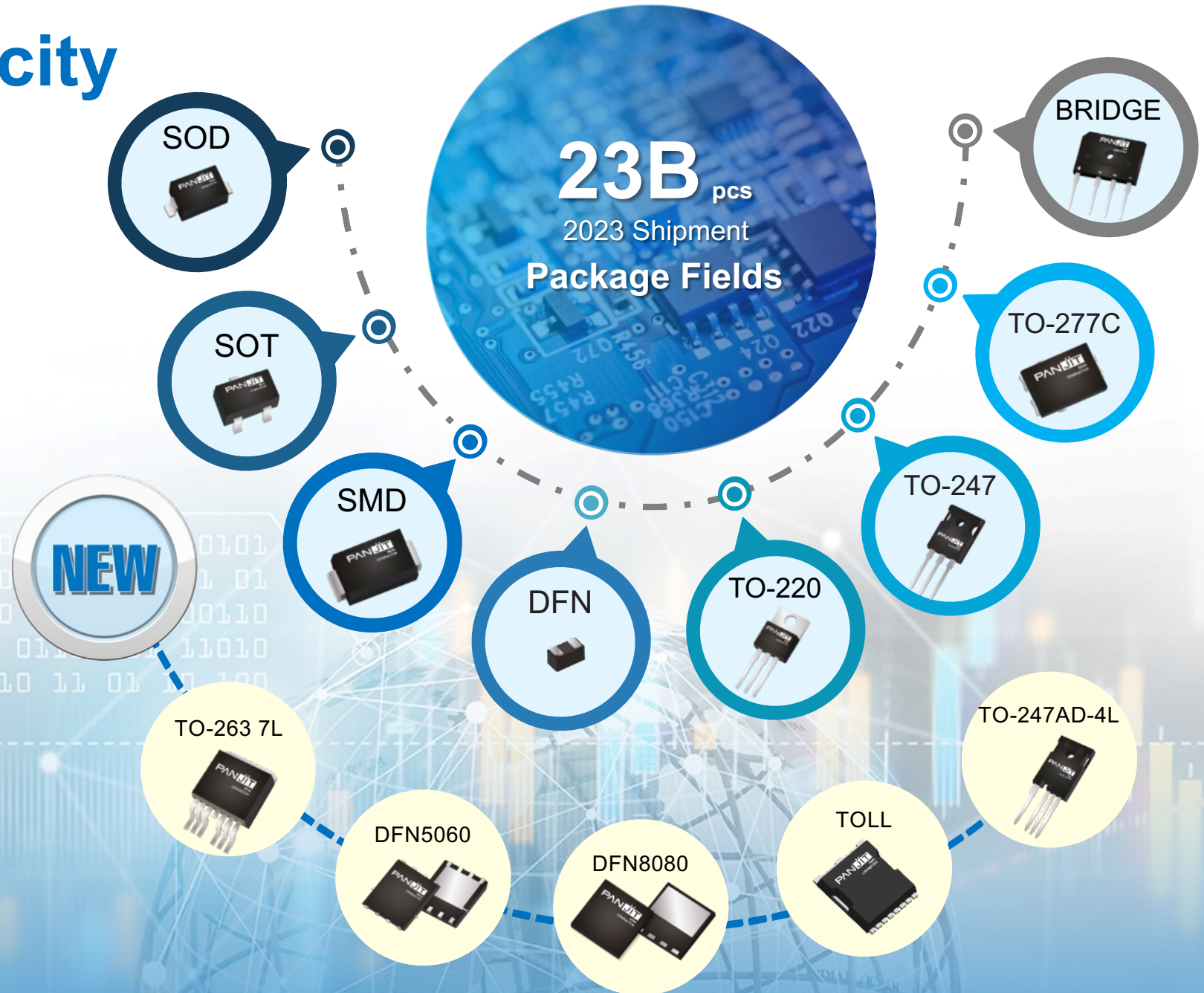
Capacity:

55 million/month (MP in 2024 Q4)

Capacity:

4,000 million/month

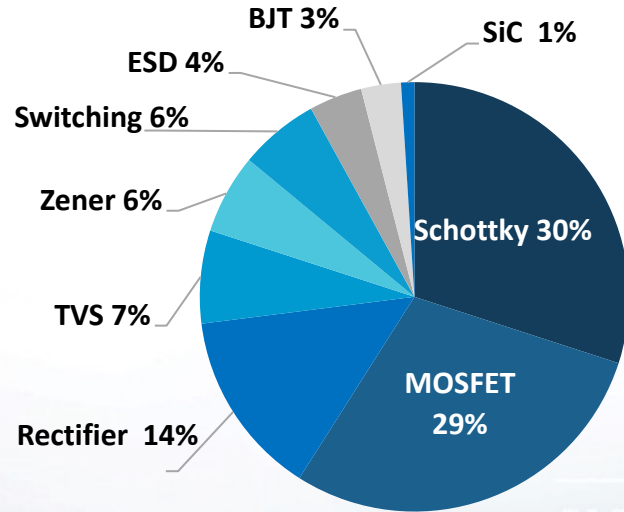
Overall



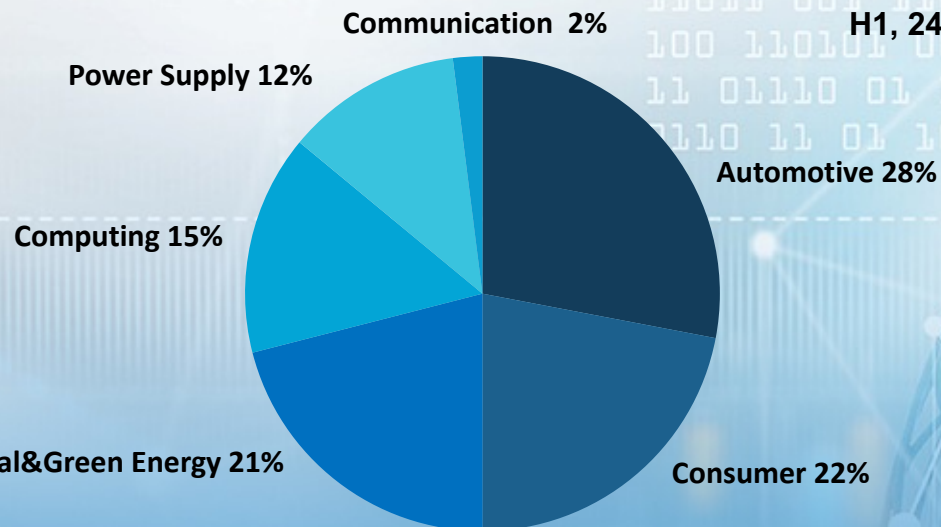


# Market Segment

By Product  
H1, 24



By Market Segment  
H1, 24



# Application Field



## Automotive

Lighting, Infotainment, Pump, Body & Comfort, On Board Charger



## Industrial & Green Energy

PV Inverter, Server fan, EV charger, Motor, DC fan, Robot, Medical



## Computing

Notebook, Motherboard, SSD, Server, Data center



## Power Supply

PD Charger, Power adapter, UPS DC-DC Brick module, ATX/Server Power



## Consumer

TV, White/Black goods, Game console, Printer, Smart watch, PC camera



## Communication

POE, Mobile, Base station

# Innovation for the Future Technology

	2023	2024	2025	2026	2027
LV MOSFET	SGT Gen.1 N-CH 30V/40V	SGT Gen.2 N-CH 30V/40V Low Ron	SGT Gen.2 N-CH 30V/40V Line up	SGT Gen.2 Dual-CH 30V/40V Line up	SGT Gen.3 N-CH 30V/40V Low RSP
MV MOSFET	SGT Gen.2 N-CH 100V/80V	SGT Gen.2 N-CH: 80V&40V-LL/ 60V	ST Gen.2 P-CH 100V	SGT Gen.2/SGT Gen.3 N-CH 150V/100V	SGT Gen.1 N-CH 250V SOA FET 100V
SJ MOSFET	Gen.1.5 FR 600V	Gen.2 Easy/FR 650V		Gen.1 Easy 800V	Gen.3 Easy 650V
FS Trench IGBT	Gen.1 HS 650V	Gen.1 HS 1200V	Gen.1 MS 650V/1200V	Gen.2 HS 650V/1200V	Gen.2 Voltage extension
SiC Diode	Gen.2 650V	Gen.2 1200V	Gen.2 1700V	Gen. 3 650V/1200V	
SiC MOSFET			Gen.1 1200V	Gen.1 650V	Gen.2 650V/1200V
FRED		Gen.1 650V/1200V, T <sub>J</sub> :175°C	Gen.2 650V/1200V	Gen.2 Voltage extension	
Ultra LVF Bridge Rectifiers	Gen.1/Gen1.5 600V V <sub>F</sub> < 0.87V, T <sub>J</sub> 150-175°C	Gen.2 800V V <sub>F</sub> < 0.87V, T <sub>J</sub> 175°C			
Deep Snapback ESD		Gen.1 1V/3.3V/5V, C <sub>J</sub> :0.1pF 24V/28V C <sub>J</sub> :0.4pF	Gen.2 36V/48V C <sub>J</sub> :0.4pF Small PKG hi-Surge	Gen.3 28V/36V/48V C <sub>J</sub> :0.2pF 1V/3.3V/5V C <sub>J</sub> :0.05pF	Gen.1 Tiny PKG(DFN0402) <0.1pF
H-type TVS		Gen.2 Bi, 14V-48V 6.6KW, T <sub>J</sub> :175°C	Gen.2 Uni/Bi, 5V-220V 200W-3KW, T <sub>J</sub> :175°C	Gen.2 Uni/Bi, 12V-58V 5KW, T <sub>J</sub> :175°C	





**Automotive**

# Automotive Business

2024 H1

AEC-Q101 parts business trend



Product Offering  
**2K+** Parts

Shipment  
**3.55B**  
Pcs. in 2023



Worldwide  
**20+** 国家数

Serving over  
**300+**



# Corporate Sustainability

# Vision for ESG Sustainable Development



## Environmental



Taiwan Climate Partnership  
台灣氣候聯盟

With the vision of "Strengthening Green Energy Development, Sustaining Prosperity in the Forest," we are committed to achieving carbon neutrality by 2040 through green energy sustainability initiatives.



## Social



Responsible Business Alliance  
Advancing Sustainability Globally

With the vision of "Cultivating a Company that Inspires Joy and Resilience, Where Employees Take Pride," we are dedicated to promoting initiatives that prioritize employee care and community engagement.



## Governance



天下永續會

With the vision of "Upholding Business Integrity, Collaborating with Global Partners for Sustainable Prosperity," we are committed to make the sustainable development of our company a reality.



## REACH CARBON NEUTRALITY BEFORE 2040



**YOUR COMPONENT  
OUR PROFESSION**

