

PANJIT International Inc



Dec. 2024

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



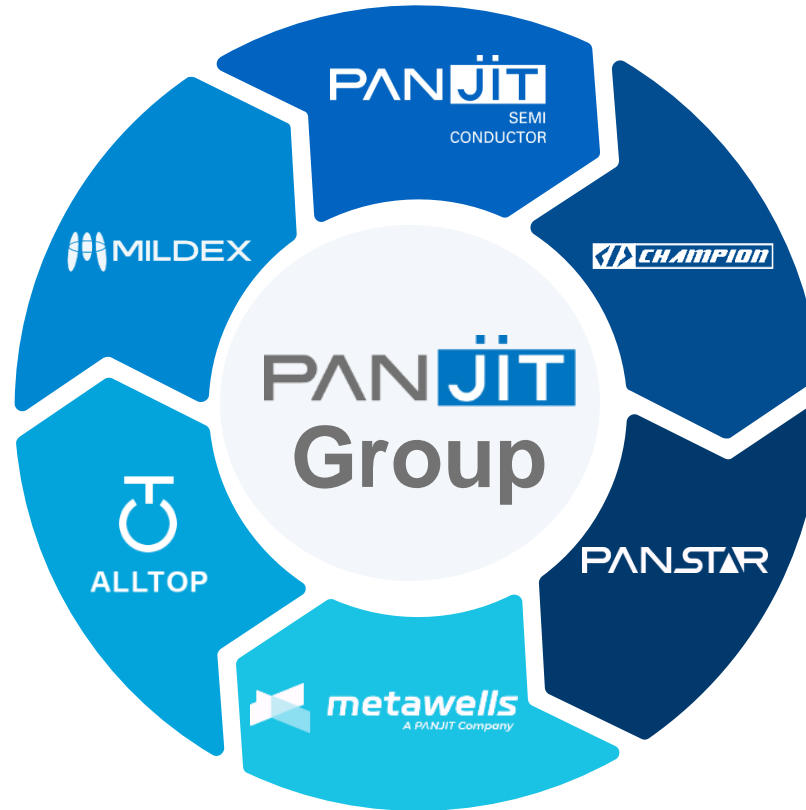
PANJIT International Inc.

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

PANSTAR Semiconductor Co., Ltd

Product: ESD, MOSFET
Application: NB, PC, Automotive, Power Supply, Motor Driver



MetaWells Co., Ltd.

Product: Motor MCU, Power Management IC, Signal Chain IC
Application: AI/General computing, Motor Fan, Industrial PC, Consumer, Power Supply



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.

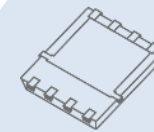
NTD\$ **12.7** Billion
Y2023 revenue



5

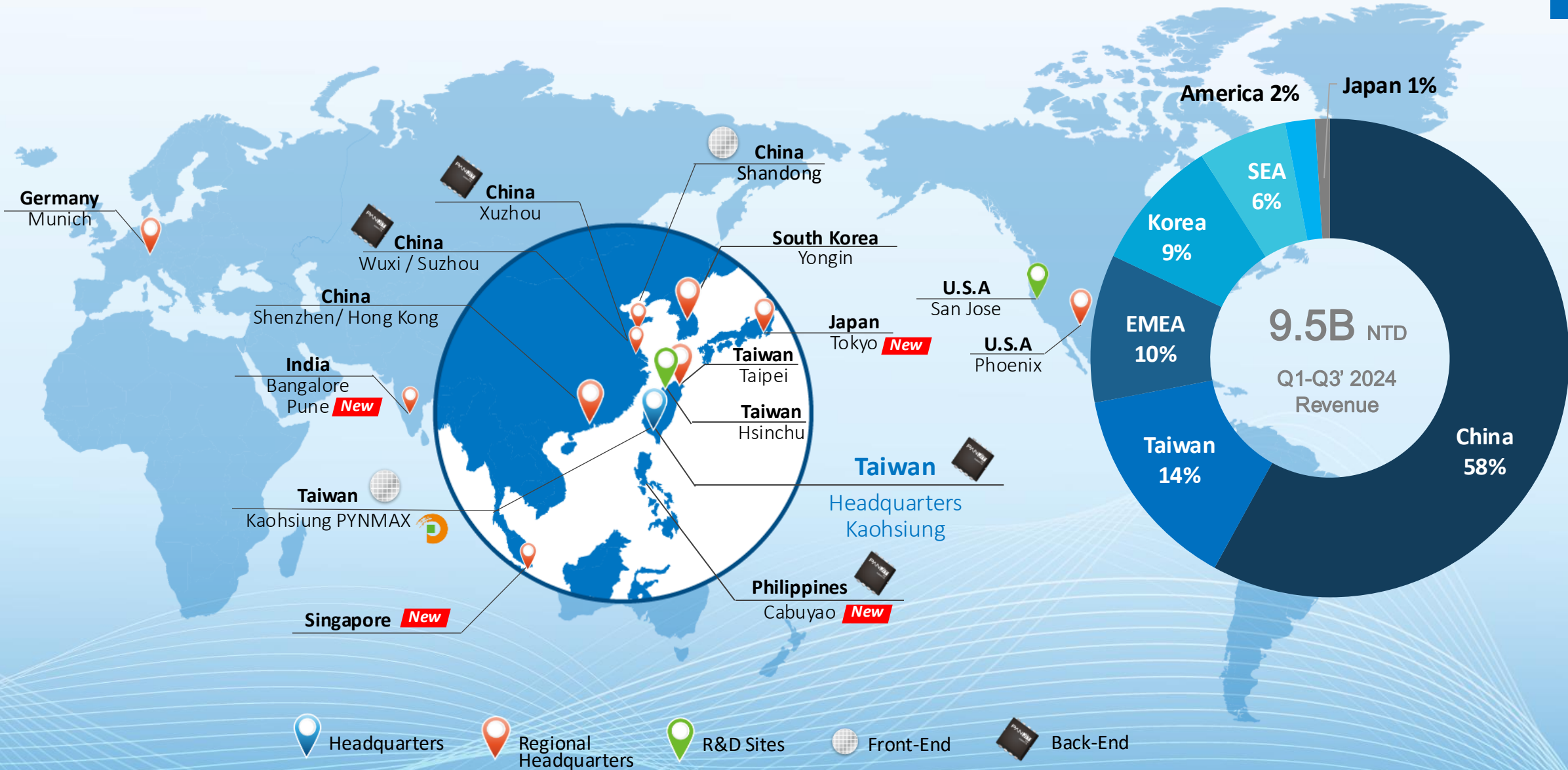
Worldwide Ranking
*From Omdia, 2023: Low Power Si Rectifier, >500mA

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

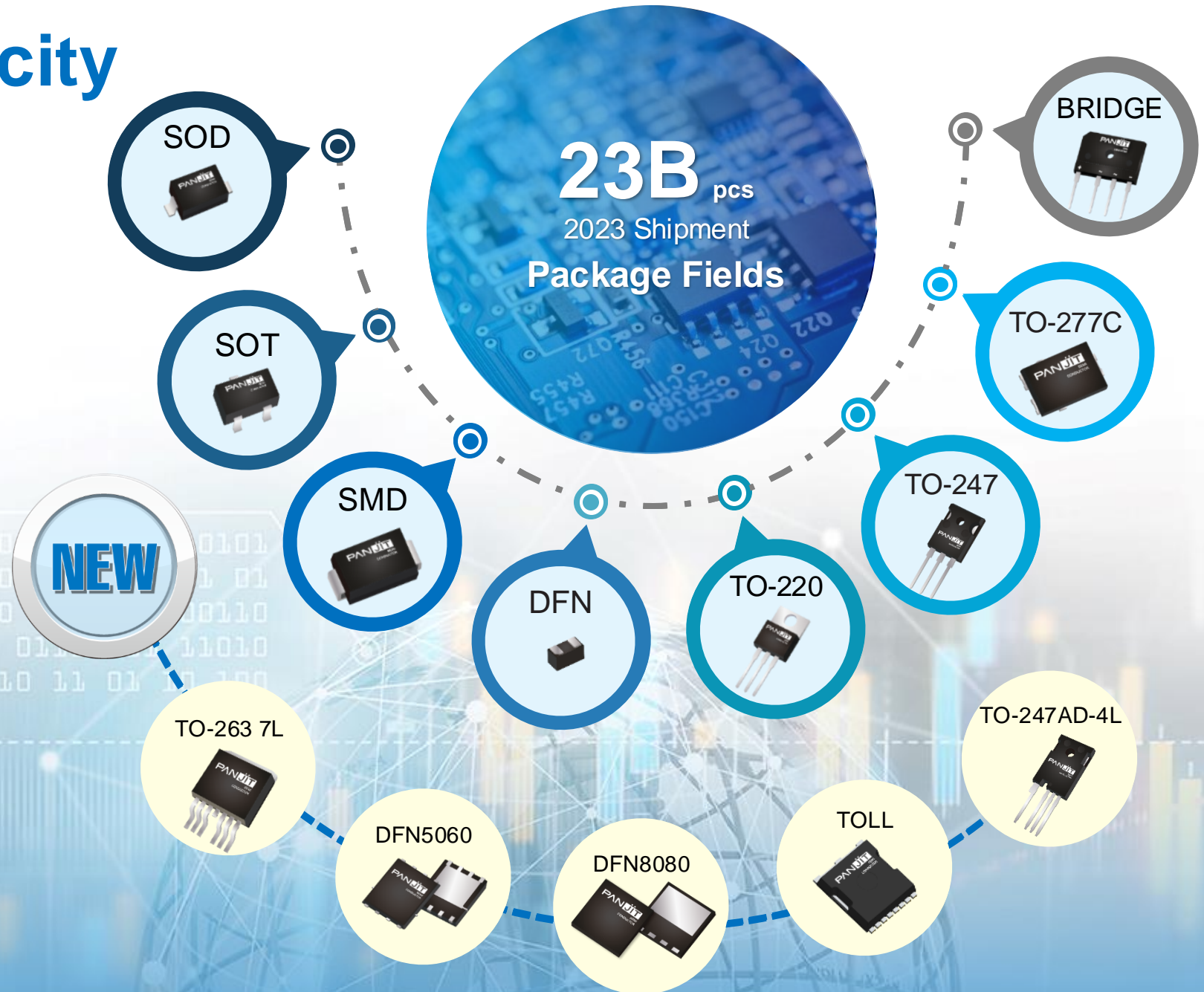
Capacity:

55 million/month (MP in 2024 Q4)

Capacity:

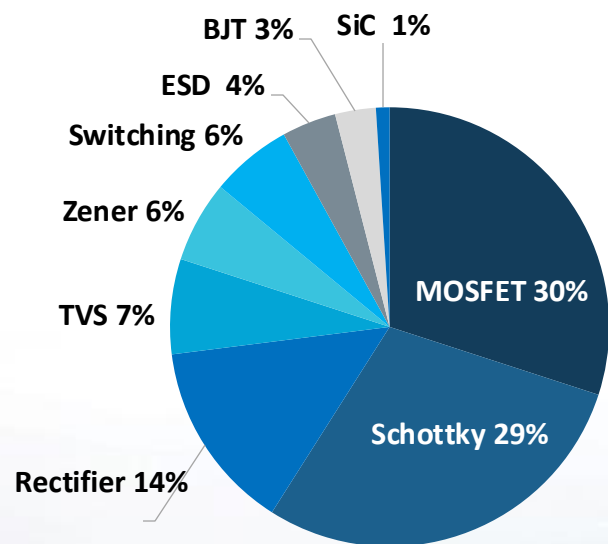
4,000 million/month

Overall

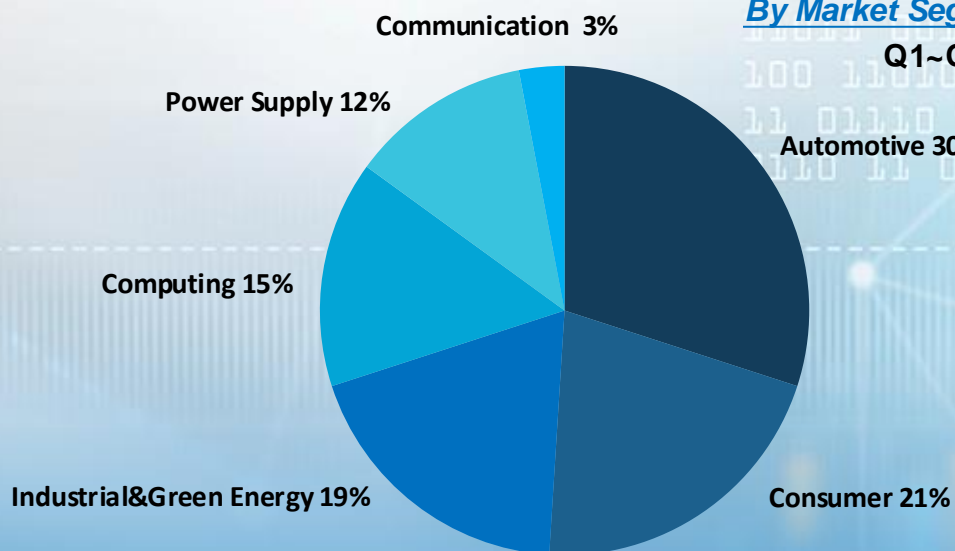


Market Segment

By Product
Q1~Q3 , 24



By Market Segment
Q1~Q3, 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

	2024	2025	2026	2027	2028
LV MOSFET	SGT Gen.1 N/P-Ch 30/40V Low Ron	SGT Gen.2 N-Ch 30/40V Low RSP	SGT Gen.2 N-Ch 30/40V Line up	SGT Gen.3 N-Ch 40V Low FOM	SGT Gen.3 N-Ch 40V Line up
MV MOSFET	SGT Gen.1, 2 N-Ch 60/80/150V, 100V	SGT Gen.2 N-Ch 60/80V	SGT Gen.1, 2 N-Ch 200V, 60/80V	SGT Gen.3 N-Ch 80/100V	SGT Gen.2 N-Ch 150/200V
SJ MOSFET	Gen.2 Easy,FR 650V	Gen.2 Easy,FR 650V Line up	Gen.1 Easy 800V	Gen.3 Easy,FR 650V	
FS Trench IGBT	Gen.1 HS 1200V	Gen.1 MS 650/1200V	Gen.2 HS 650/1200V	Gen.2 Voltage Extension	
SiC Diode	Gen.1.5 650/1200V	Gen.3 650/1200V	Gen.3 650/1200V	Gen.3, 4(Trench) 1700V, 650/1200V	
SiC MOSFET		Gen.1 1200V	Gen.1 750V	Gen.2 1200V	Gen.2 750V
FRED		Gen.2 650/1200V	Gen.3 650/1200V		
ESD	Deep Snapback	Gen.1 1-28V Low Cj	Gen.2 24-36V Low Cj	Gen.3 48V Low Cj	
	High Surge	Gen.2 Uni 3-19A/5-45A	Gen.2 Bi 3-19A/Uni 25-100A	Gen.2 Bi 5-45A/Uni 25-100A	Gen.2 Bi 25-100A
TVS		Gen.2 E Type Bi 200-600W, T _j 150°C	Gen.2 H Type Uni/Bi 5KW, T _j 175°C	Gen.2 H Type Uni/Bi 5KW, T _j 175 °C Line up	

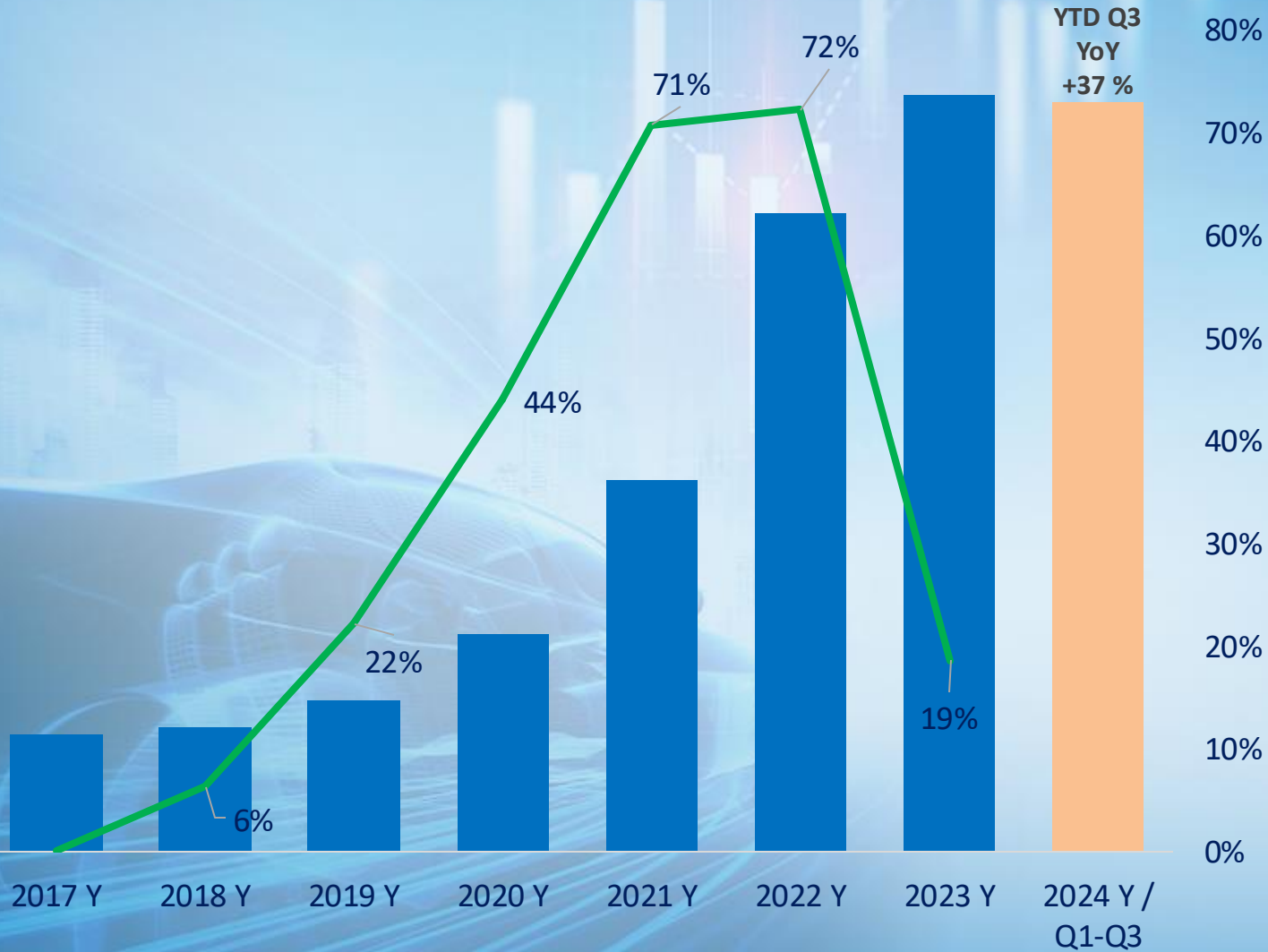




Automotive

Automotive Business 2024 Q1~Q3

AEC-Q101 parts business trend



Product Offering
2K+ Parts

Shipment
3.55B
Pcs. in 2023



Worldwide
20+ Countries

Serving over
300+
customers across
the globe



**YOUR COMPONENT
OUR PROFESSION**

