

PANJIT International Inc



Mar. 2024

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

About PANJIT



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

- PANJIT IPO in Taiwan

1997

- QS-9000 certified

2005

- Set up Shenzhen Office

2006

- TS16949 certified

2008



- Set up PANJIT Korea

2019



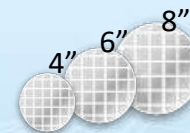
- Established IBU and R&D center in San Jose, US and Hsinchu, Taiwan

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 37 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.

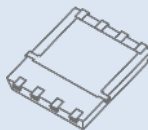
NTD\$ **12.7** Billion
Y2023 consolidated
revenue



6

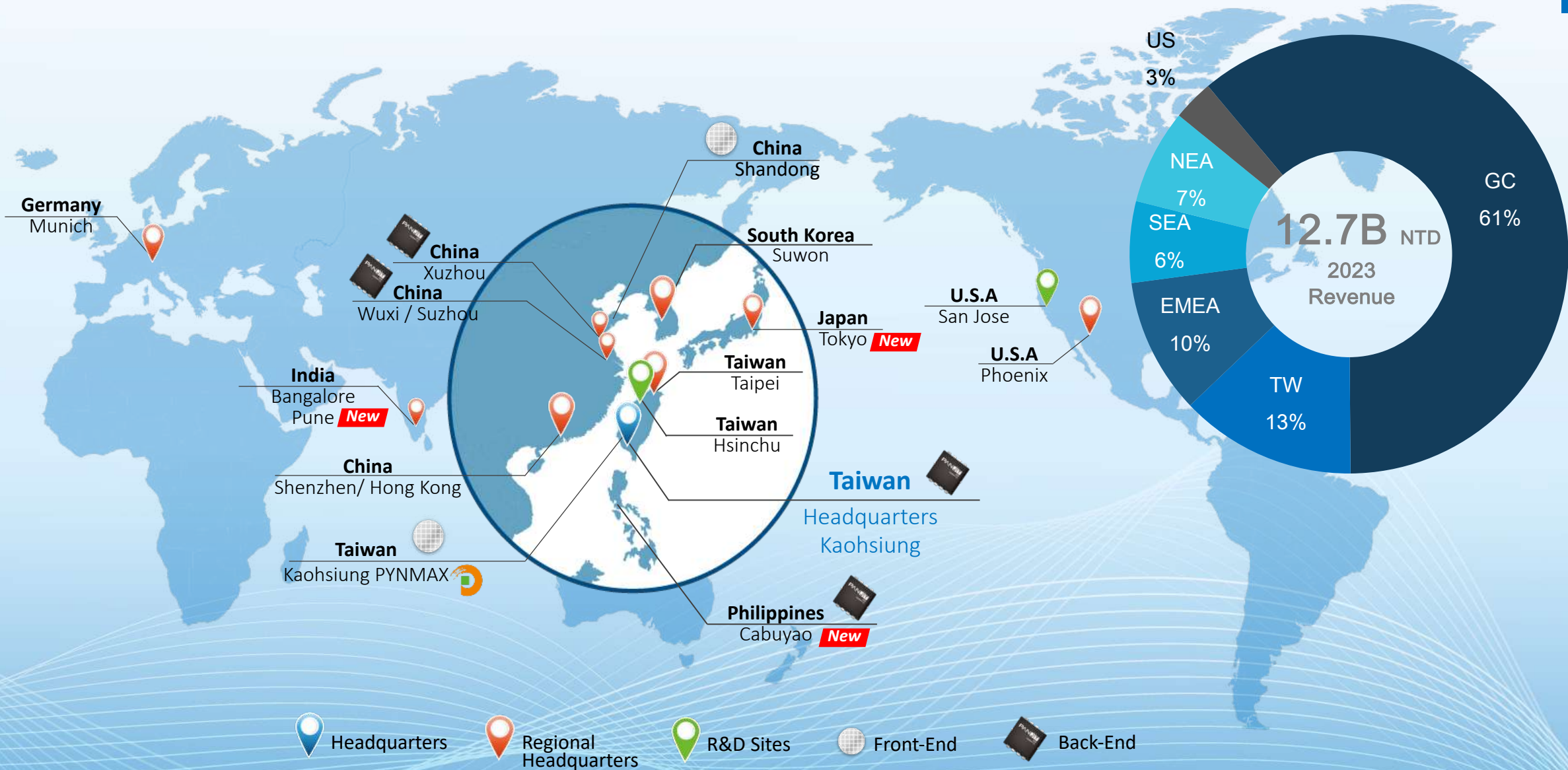
Worldwide Ranking
*From Omdia, 2022: Low
Power Rectifier, >500mA

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:

Small Signal Device

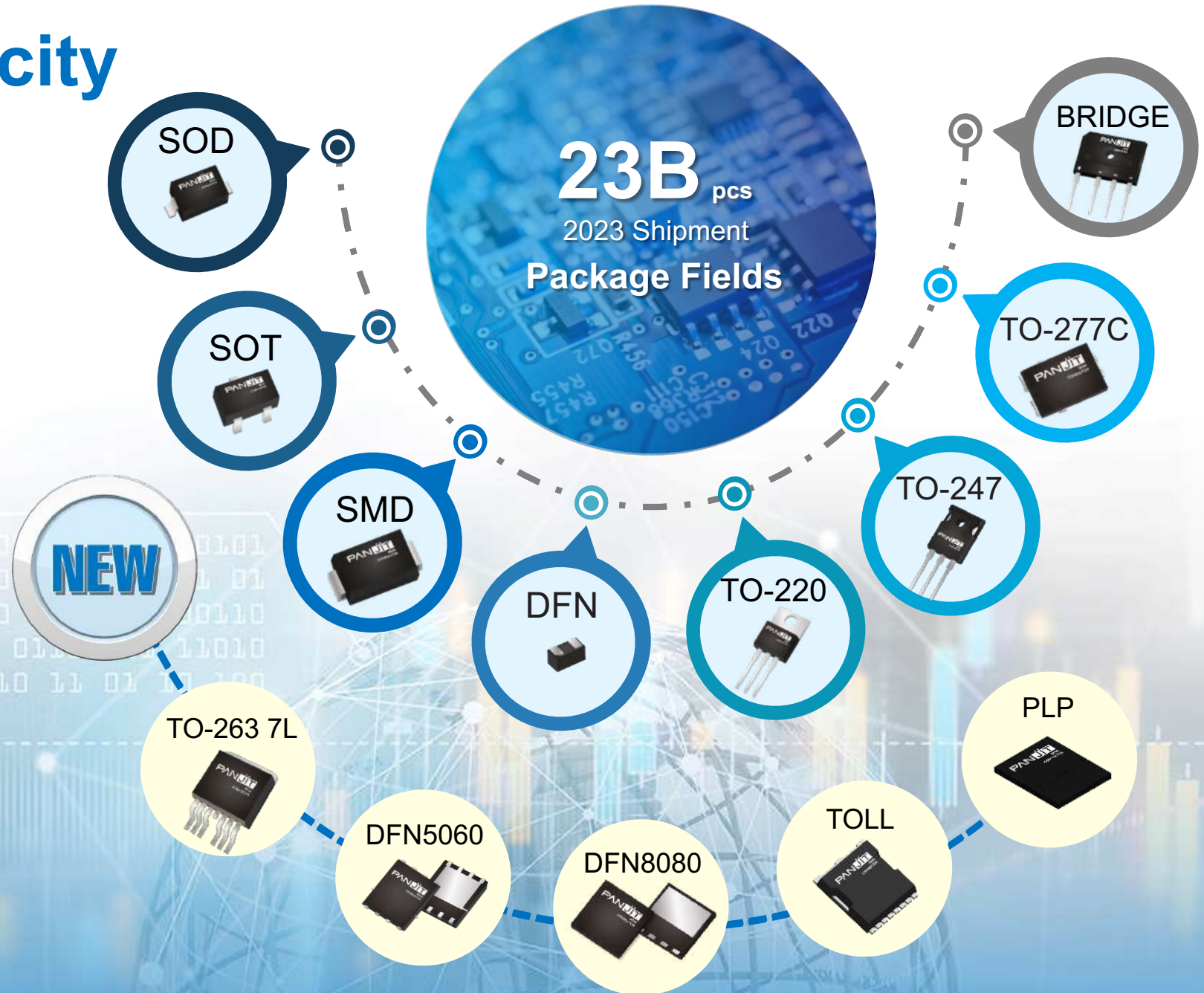
Capacity:

55 million/month (MP in 2024 Q4)

Capacity:

4,000 million/month

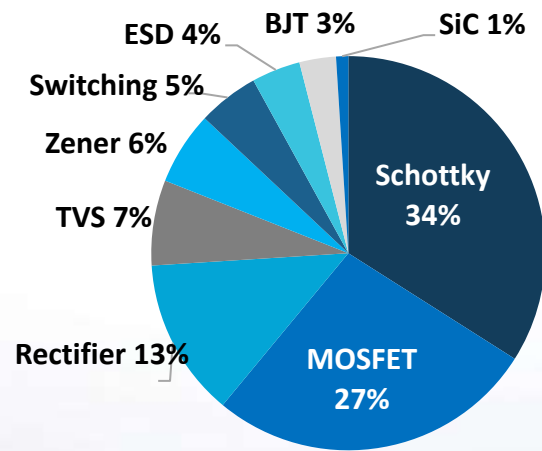
Overall



Market Segment

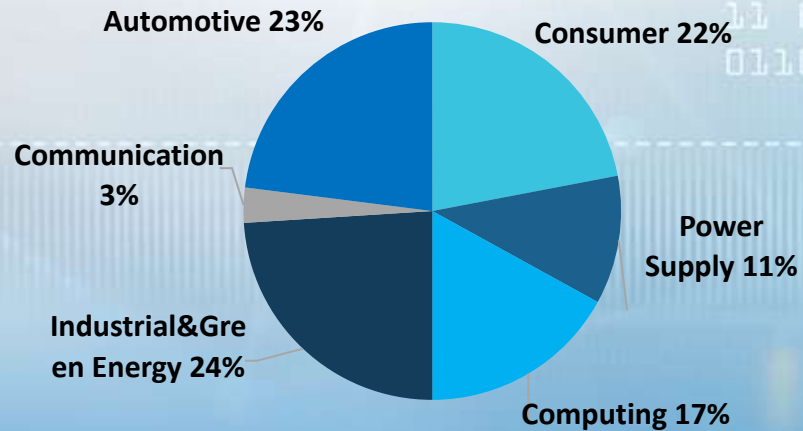
By Product

2023



By Market Segment

2023



Application Field



Automotive

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



Industrial & Green Energy

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



Computing

Notebook, Motherboard, SSD, Server



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

Data center, POE, Mobile, Base station

New Product & Technology Focus

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 650V/1200V		Gen.2 650V/1200V	
FRED		Gen.1 650V/1200V, T _j :175°C	Gen.2 650V/1200V	Gen.2 Voltage extension	
Ultra LVF Bridge Rectifiers	Gen.1/Gen1.5 600V V _F < 0.87V, T _j 150-175°C	Gen.2 800V V _F < 0.87V, T _j 175°C			
Deep Snapback ESD		Gen.1 1V/3.3V/5V, C _j :0.1pF 24V/28V C _j :0.4pF	Gen.2 36V/48V C _j :0.4pF Small PKG hi-Surge	Gen.3 28V/36V/48V C _j :0.2pF 1V/3.3V/5V C _j :0.05pF	Gen.1 Tiny PKG(DFN0402) <0.1pF
H-type TVS		Gen.2 Bi, 14V-48V 6.6KW, T _j :175°C	Gen.2 Uni/Bi, 5V-220V 200W-3KW, T _j :175°C	Gen.2 Uni/Bi, 12V-58V 5KW, T _j :175°C	

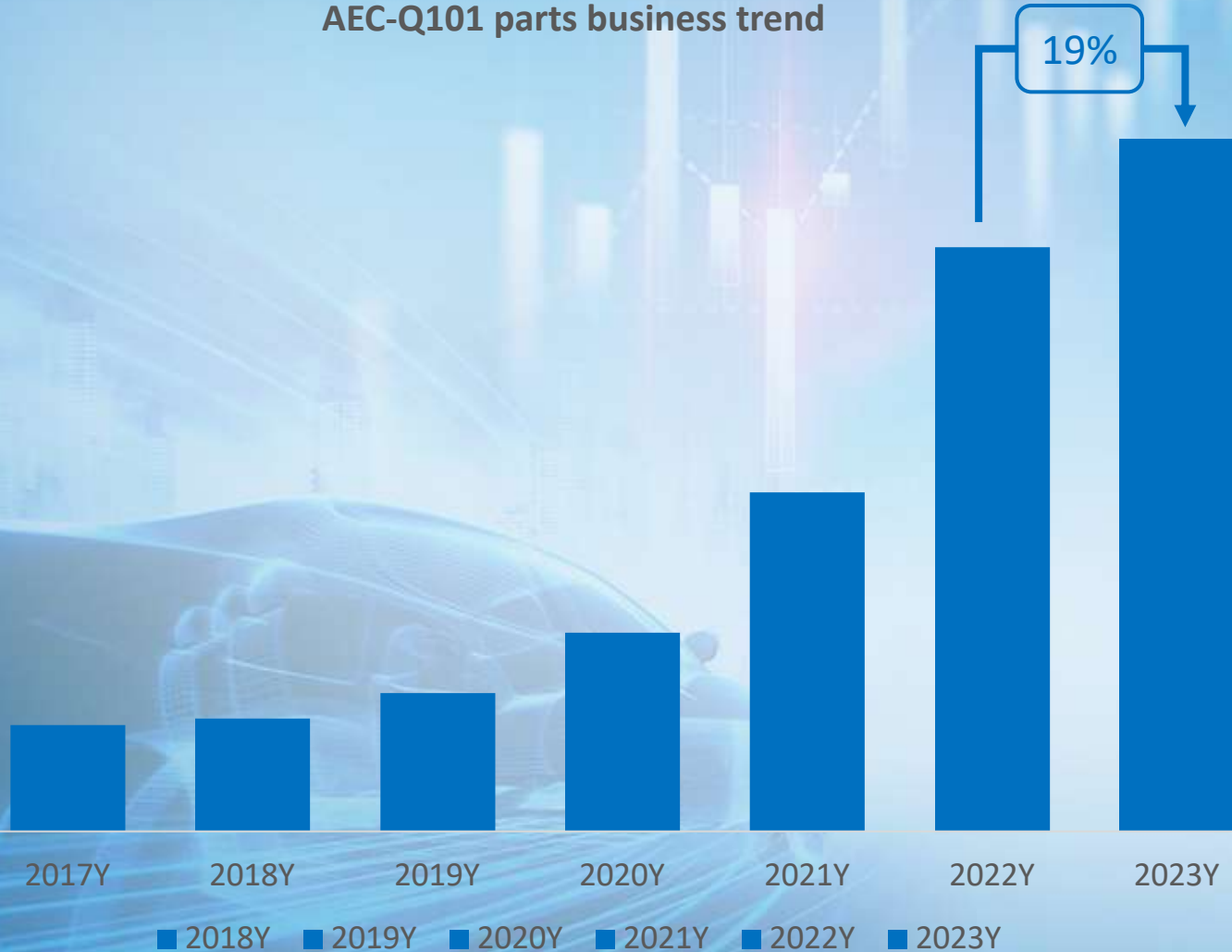


Automotive focus

Automotive Business

2023Y updated

AEC-Q101 parts business trend



Product Offering
2K+ Parts

Shipment
3.55B Pcs
2023Y



Worldwide
20+ Countries

Serving over
300+
customers across
the globe



**YOUR COMPONENT
OUR PROFESSION**

