

PANJIT International Inc

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Dec. 2020

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- New Technology Focus

About PANJIT



PANJIT International Inc.
Est. 1986.05
Product: Discrete Packaging & Testing



PYNMAX Technology Inc.
Est. 2000.03
Product: Wafer Foundry




Sumnergy Co., Ltd.
Est. 2017.06
Product: BMS, Battery Pack
Application: EV, 3C

Wafer & Assembly Capacity

Wafer Capacity

Assembly Capacity



PYNMAX Kaohsiung, Taiwan



- 4"/5"/6" EPI Wafer: 70,000 pcs/month
- 5"/6" Schottky Wafer: 50,000 pcs/month
- 6" ESD/TVS Wafer: 3,000 pcs/month
- 6" ZENER Wafer: 3,000 pcs/month
- 8" wafer: In construction



PANJIT Kaohsiung, Taiwan


Package:
Small Signal Devices/SMD Bridge

Capacity:
2,100 KK /month



PANJIT Shandong, China

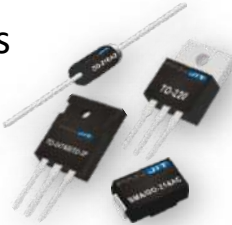
- 4" ESD/TVS Wafer: 25,000 pcs/month



PANJIT Wuxi, China

Package:
Power Package Devices

Capacity:
400 KK /month

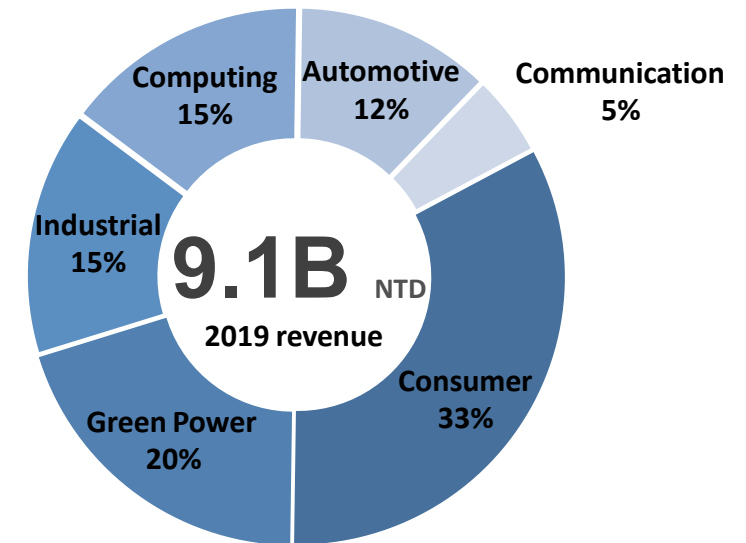


PANJIT Overview

PANJIT International Inc. is a leading global manufacturer dedicating in supplying high quality semiconductors, serving the consumer, green power, industrial, automotive, communication and computing segments.

- Capital: \$3.3 Billion NTD
- TWSE: 2481 (2001 IPO)
- 2019 Consolidated revenue: \$9.1 Billion NTD
- Approximately 2,500 employees worldwide
- 2 front-end fabrication sites
- 2 back-end manufacturing sites

Market Segments



Establish HQ in Gangshan

- Wuxi factory
- Pynmax (FE)

TS16949 certificated

Set up PANJIT Korea

Set up Beijing Office

IATF16949 certificated

IBU R&D center

8" Key process foundry

1986

2000

2005

2008

2014

2018

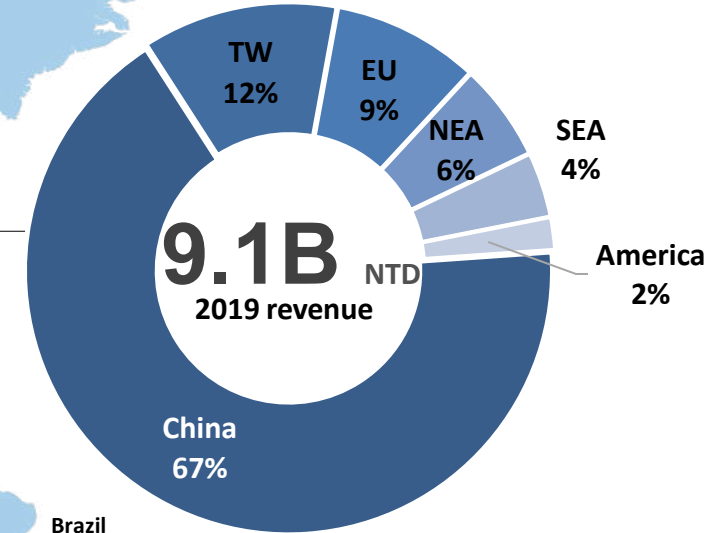
2019

2020

PANJIT Global Foot Print



Region Revenue

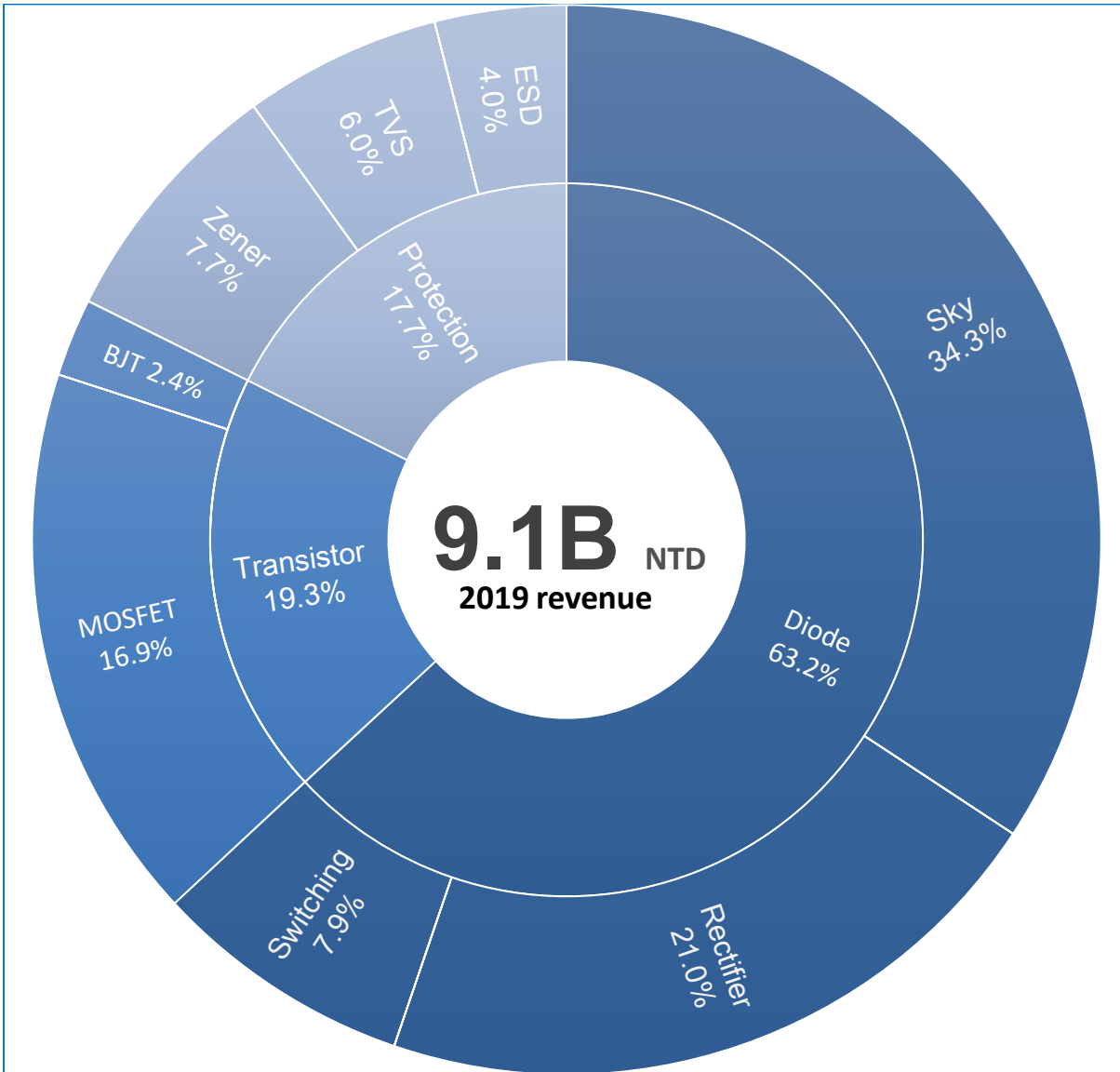


-  Headquarters
-  Sales Office
-  R&D Sites
-  Frond-End
-  Back-End

Global Power Discrete Ranking

Ranking	2018	2019
1	Infineon	Infineon
2	ON Semiconductor	ON Semiconductor
3	STMicroelectronics	STMicroelectronics
4	Mitsubishi	Nexperia
5	Vishay	Rohm
6	Nexperia	Toshiba
7	Rohm	Vishay
8	Toshiba	Mitsubishi
9	Renesas Electronics	Fuji Electric
10	Diodes	Diodes
11	Fuji Electric	Renesas Electronics
12	Littelfuse	Microchip
13	AOS	Littelfuse
14	CREE	AOS
15	Microchip	CREE
16	PANJIT	Denso
17	Shindengen Electric	Shindengen Electric
18	Denso	Toyota
19	Toyota	PANJIT

2019 Rev breakdown by product & Product Blue Print



New Product Focus

MOSFET

- SGT MOSFET 60 - 80V
- SGT MOSFET 100 - 150V
- SJ MOSFET 600 - 650V

IGBT

- FS Trench IGBT 650 - 750V
- FS Trench IGBT 950 - 1200V

FRED

- Si FRED 600 - 650V
- Si FRED 1000 - 1200V

SiC

- SiC Diode 650 - 1200V
- SiC MOSFET 900 - 1200V

Financial Info

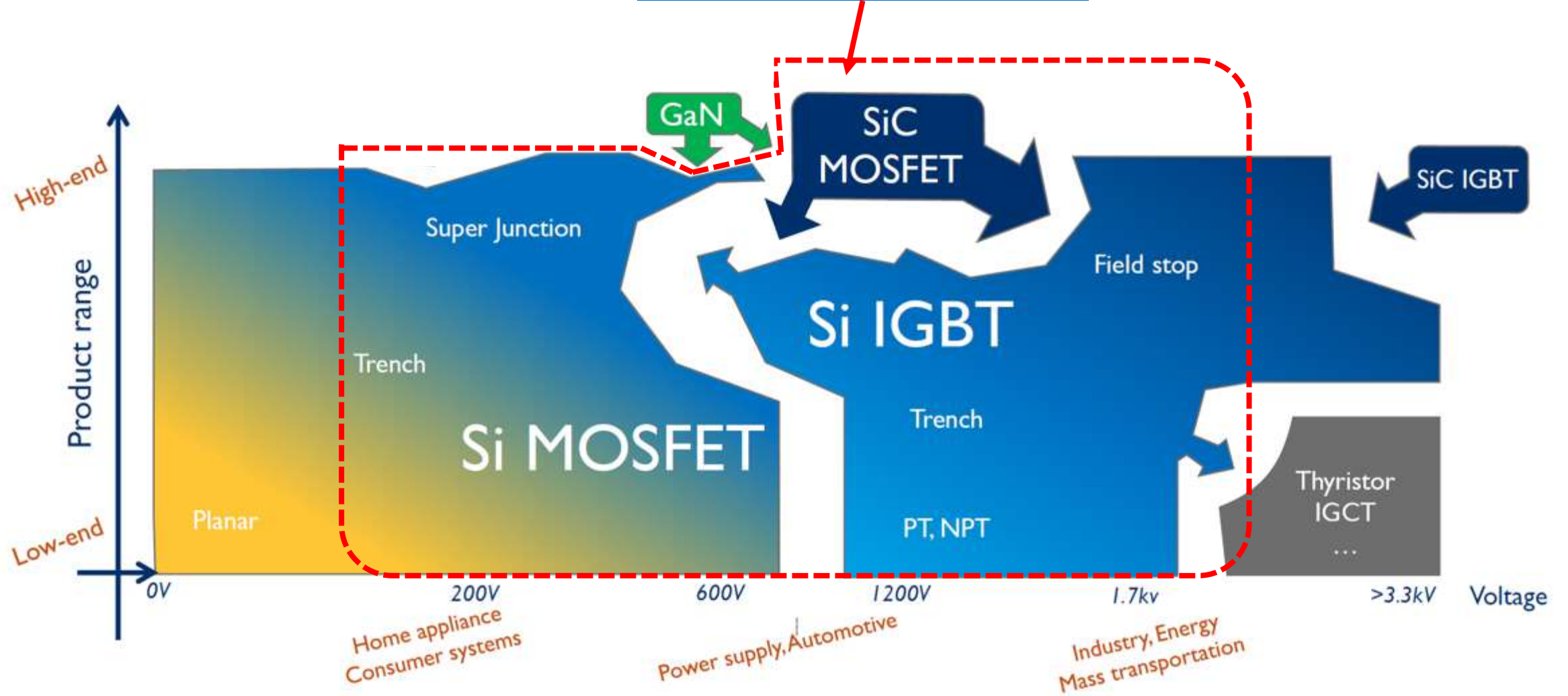
Key Financial Index 2019 YTD Q3 vs 2020 YTD Q3

Year	Rev	Gross Profit & Margin	EBITDA & Margin	EPS	Cash Flow from Operating Activities
2019 YTD Q3	NTD 6.78 Bn	NTD 1,417 Mn 20.9%	NTD 1,148 Mn 16.9%	NTD 1.02	NTD 894 Mn
2020 YTD Q3	NTD 7.49 Bn	NTD 1,730 Mn 23.1%	NTD 1,402 Mn 18.7%	NTD 2.05	NTD 979 Mn
YoY	10.5% ↑	22.1% ↑		101.0% ↑	

Power Discrete Market Trend & New Technology Focus

PANJIT Mainly Focus Technology in Power Discrete

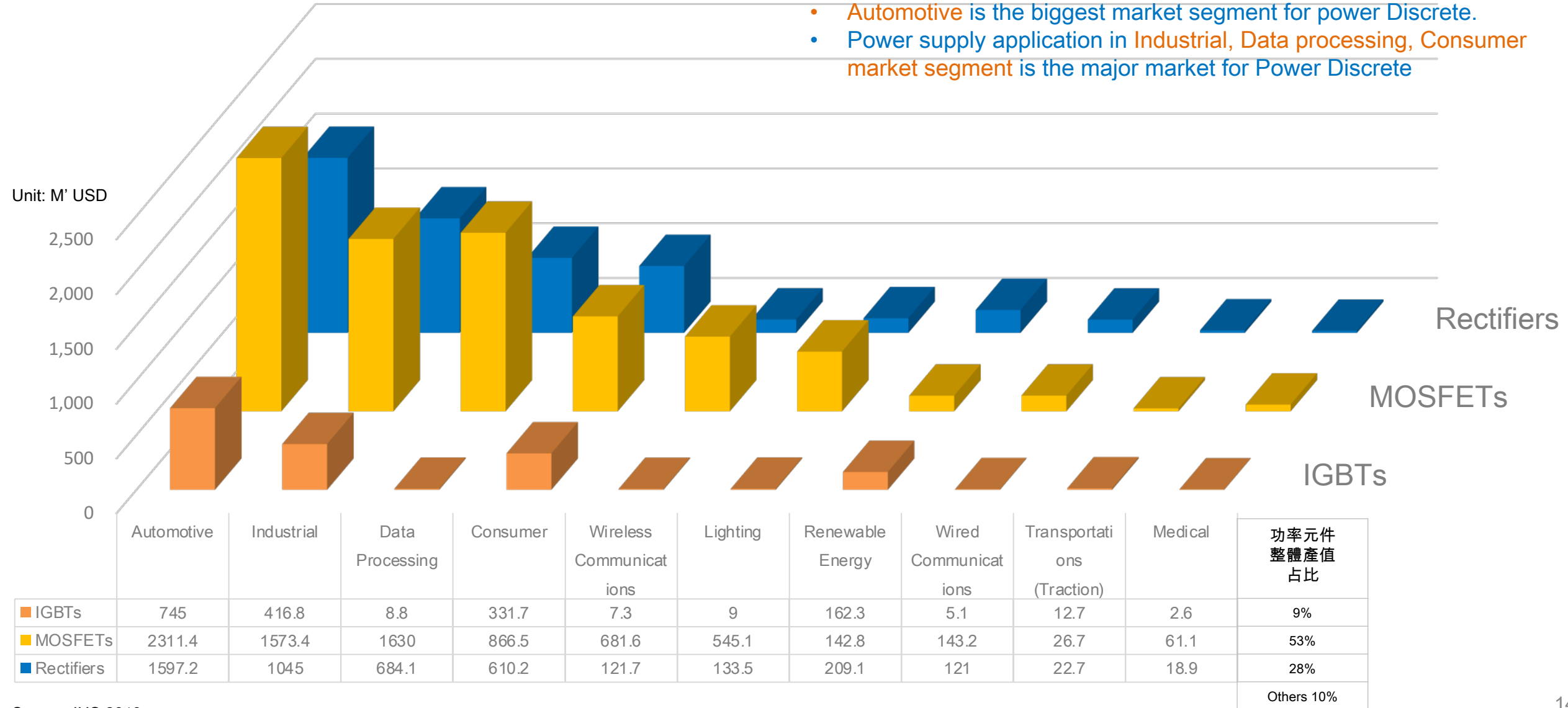
40V – 1.7 kV is PANJIT focus



2022 Power Discrete TAM

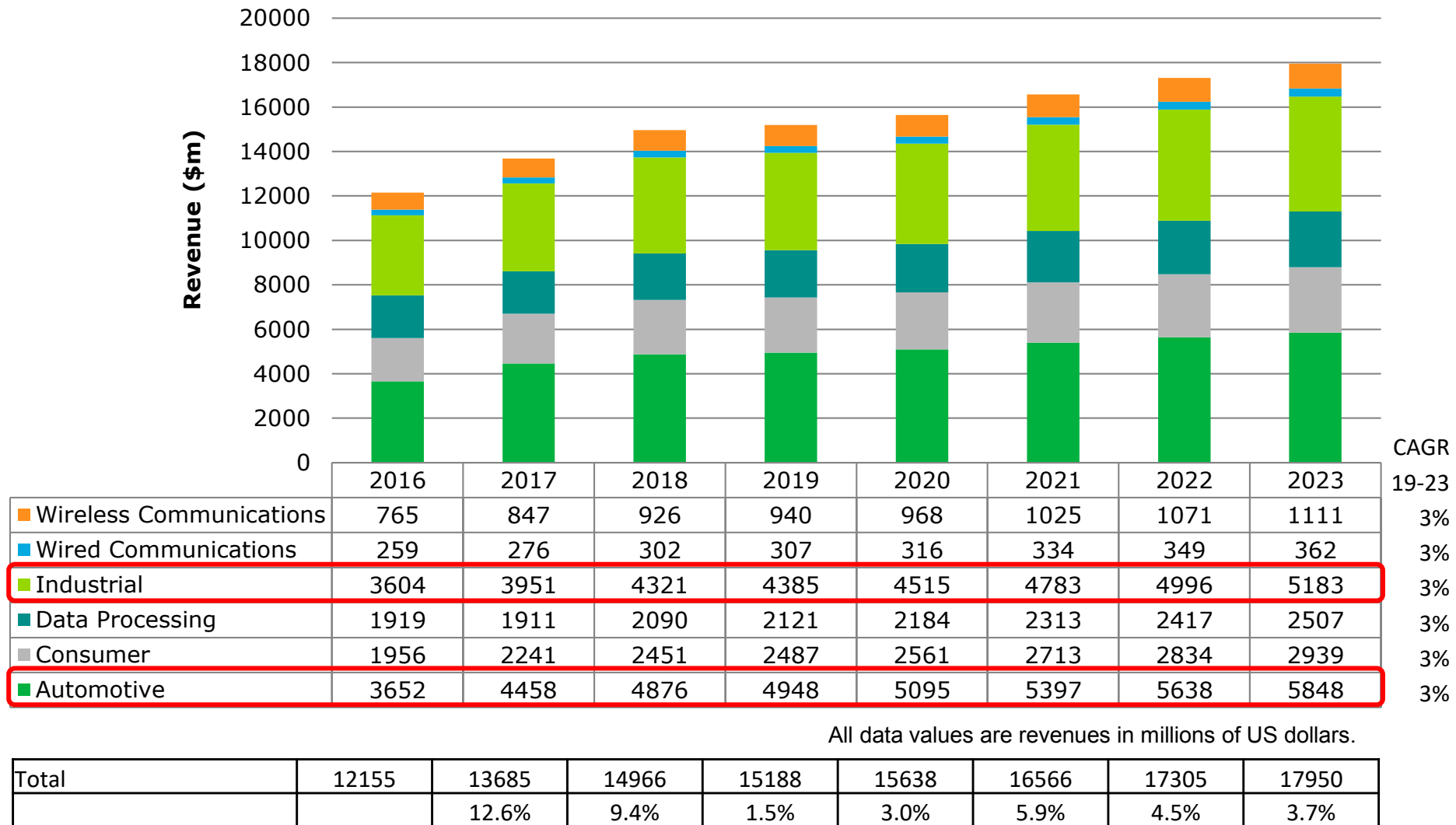
Diodes/ MOSFETs/ IGBTs in different Application Market

- Automotive is the biggest market segment for power Discrete.
- Power supply application in Industrial, Data processing, Consumer market segment is the major market for Power Discrete



Power Discrete Trend - Application

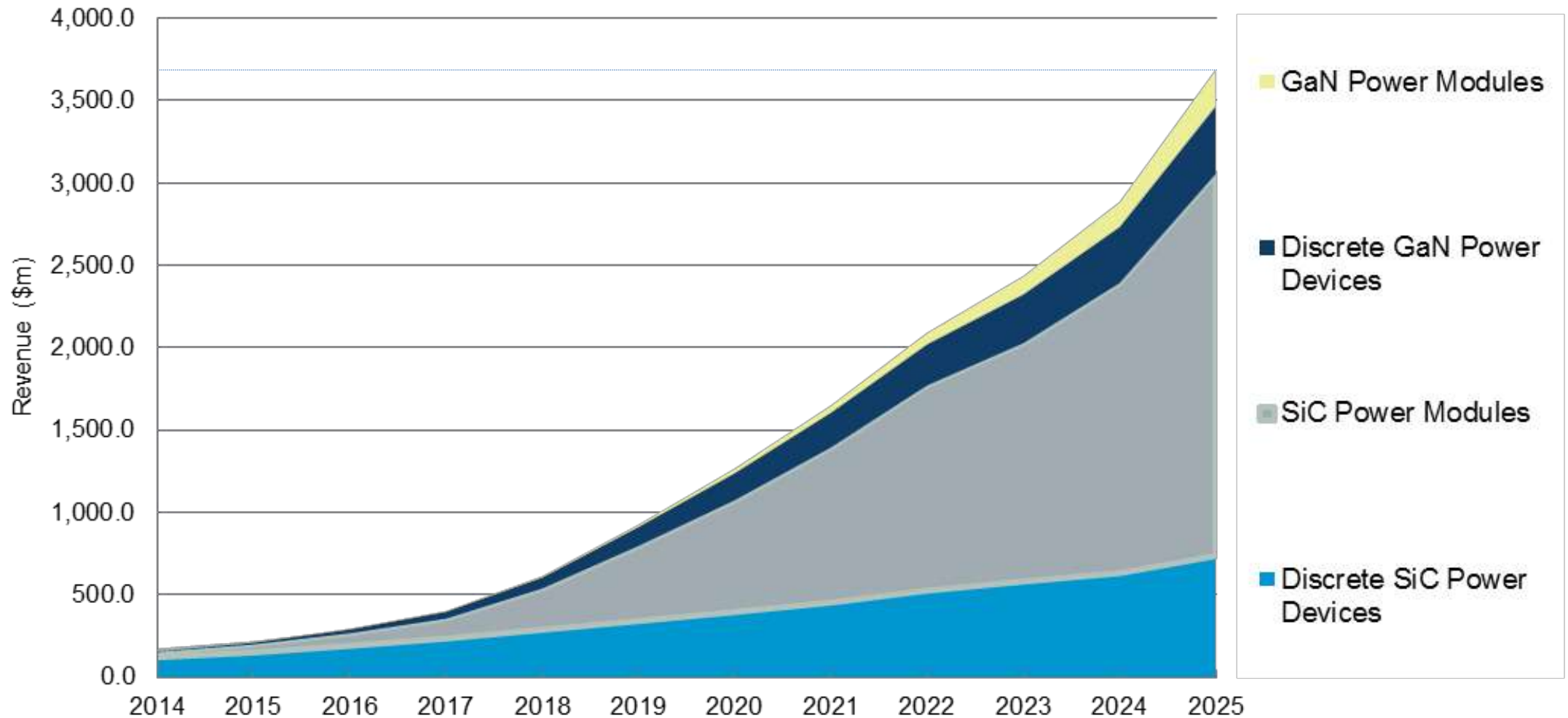
2023 Total Market USD \$17.95 B



➤ 在功率元件市場，汽車應用和工業應用，一直以來都是最大市場

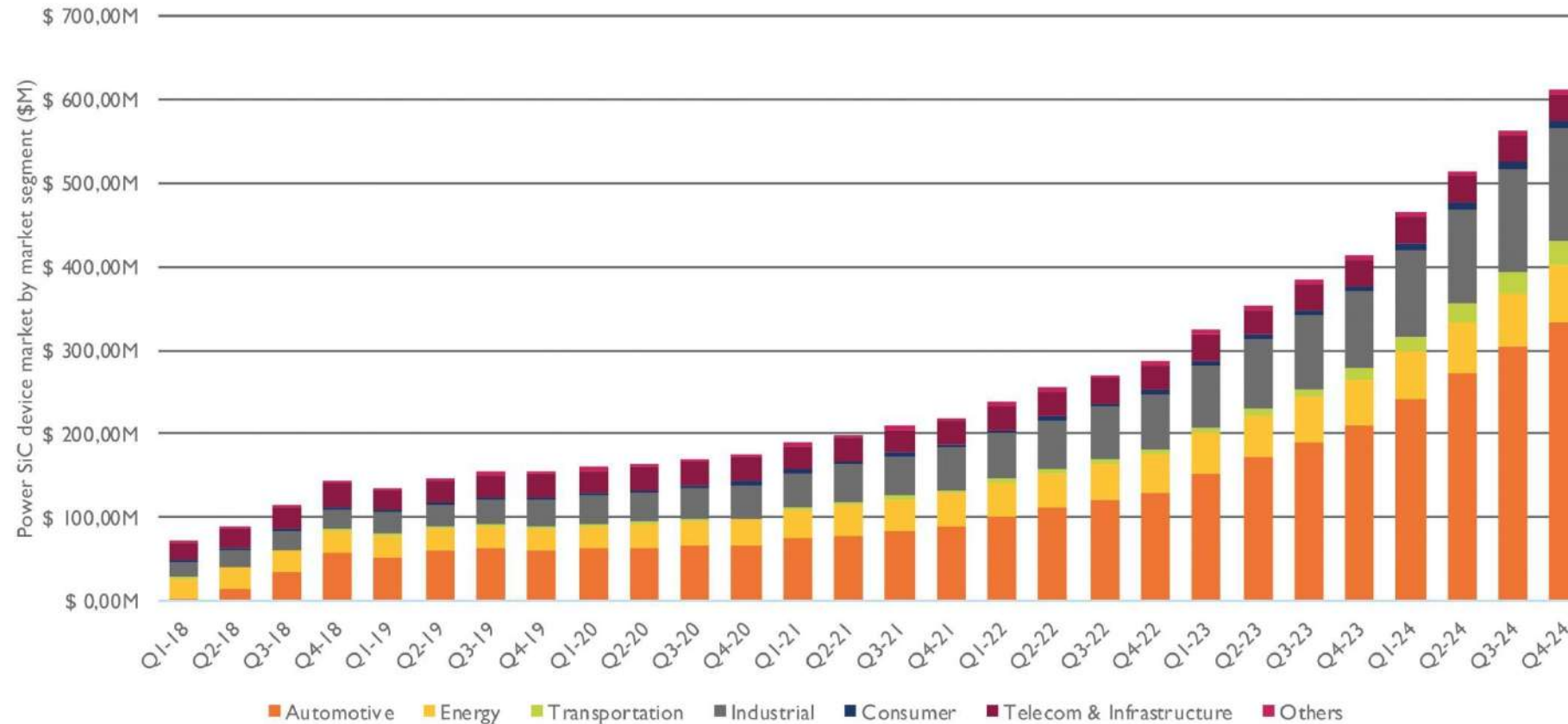
SiC and GaN Power Discrete Market Trend

2025 market up to USD \$3.7B, SiC 84% & GaN 16%



SiC device in each application market trend

More than 50% market share for Automotive application in SiC device



- This figure represents the estimated market for SiC devices, including both open and captive markets.
- The ramp up of automotive market in 2018 was mainly due to Tesla's adoption of SiC in its main inverter.
- Similar to automotive application, other applications such as industrial, energy and transportation are expected to grow.

Thank You



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