

# PANJIT International Inc

Power  
Semiconductor





Apr.

2021

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- New Technology

# About PANJIT



**PANJIT**  
SEMI  
CONDUCTOR

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



**PYNMAX Technology Inc.**  
Est. 2000.03  
Product: Wafer Foundry





**MILDEX Optoelectronics Inc.**  
Est. 2005.05  
Product: Touch Screen

# 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

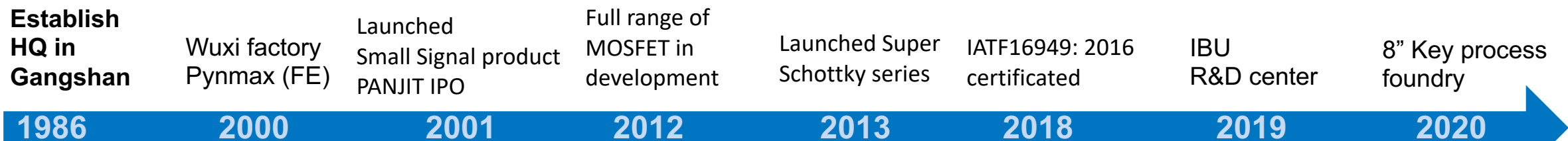
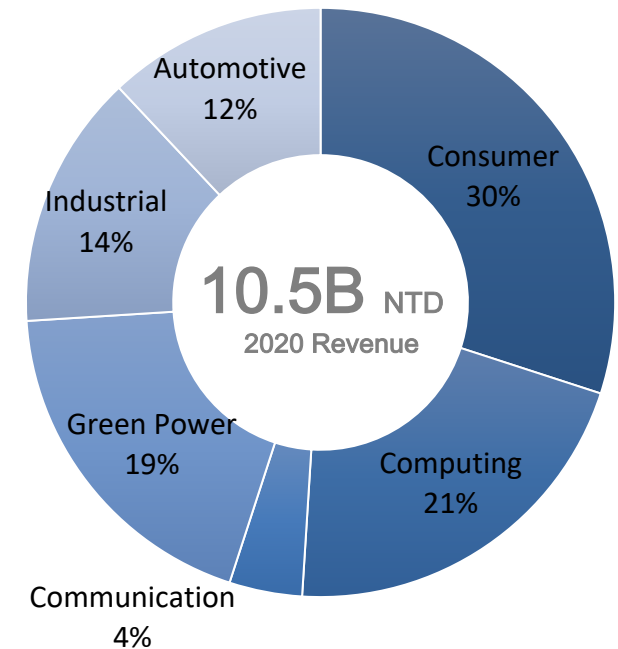
**Capacity:**  
400 KK /month



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

## Market Segments

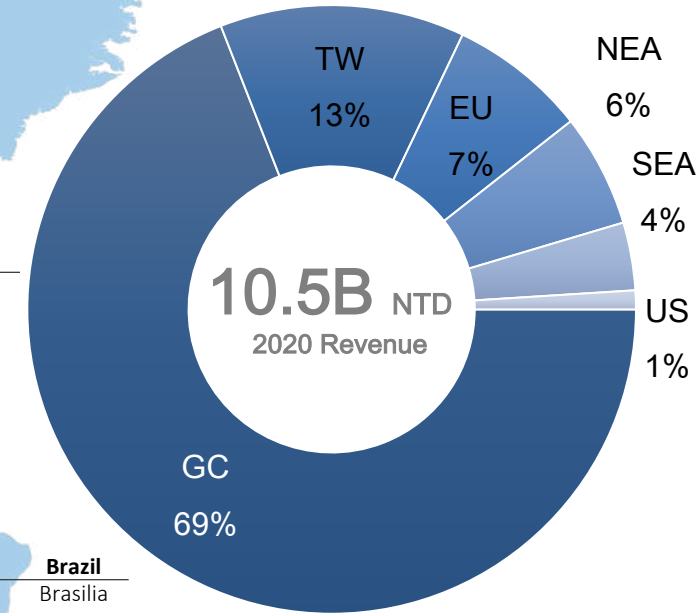




# PANJIT Global Foot Print



## Region Revenue



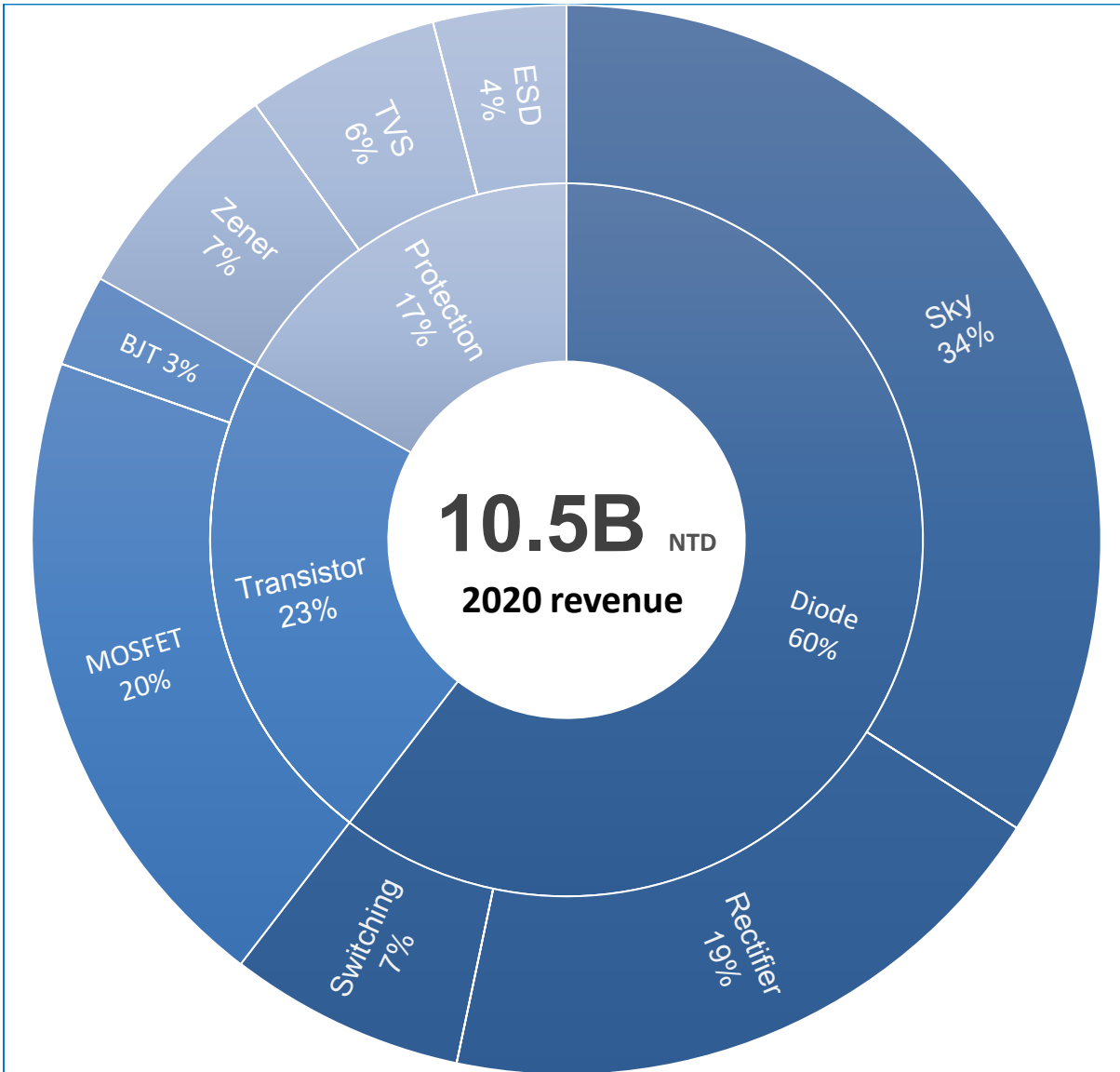
- Headquarters
- Sales Office
- R&D Sites
- Frond-End
- Back-End

# 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	<b>PANJIT</b>	Denso
17	Shindengen Electric	Shindengen Electric
18	Denso	Toyota
19	Toyota	<b>PANJIT</b>



# 2020 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

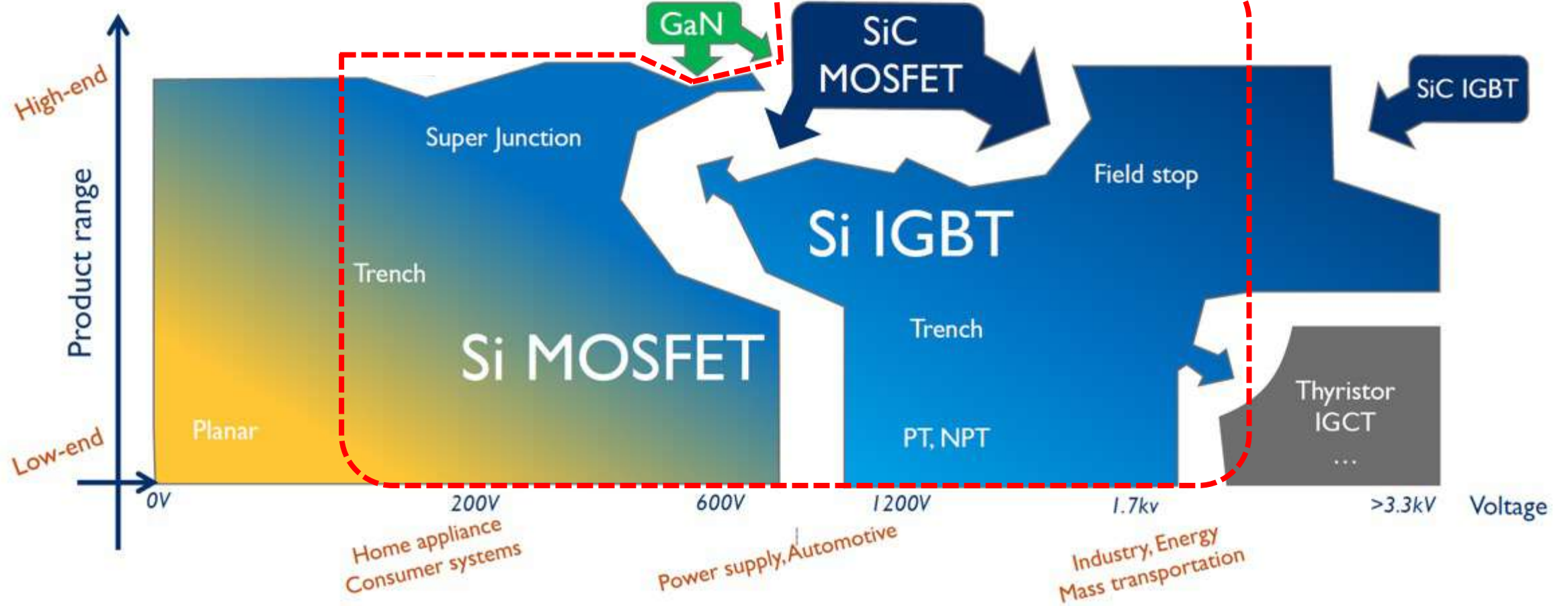
# Financial Key Index 2019 vs 2020

	2019 FY	2020 FY	YoY
Revenue	NTD 9.1 Bn	NTD 10.5 Bn	14.7% ↑
Gross Profit & Margin	NTD 1.9 Bn 21.0%	NTD 2.4 Mn 23.3%	27.3% ↑
EBITDA & Margin	NTD 1.5 Bn 16.8%	NTD 1.8 Bn 17.2%	
EPS	NTD 1.50	NTD 2.70	80% ↑
Cash Flow from Operating Activities	NTD 0.7 Bn	NTD 1.8 Bn	

# Power Semi Market Trend & PANJIT New Technology development

# PANJIT Technology development

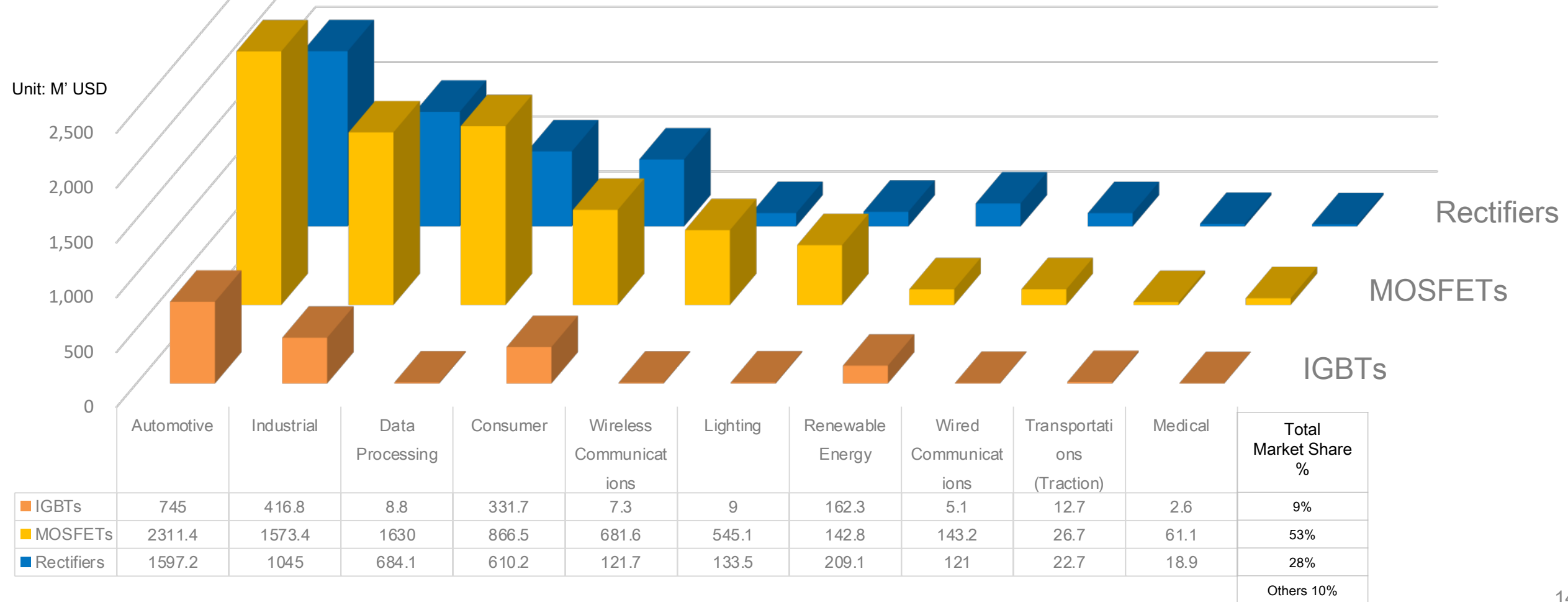
40V – 1.7 kV is PANJIT focus



# Power Discrete 2022 TAM

## Diodes/ MOSFETs/ IGBTs in each 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

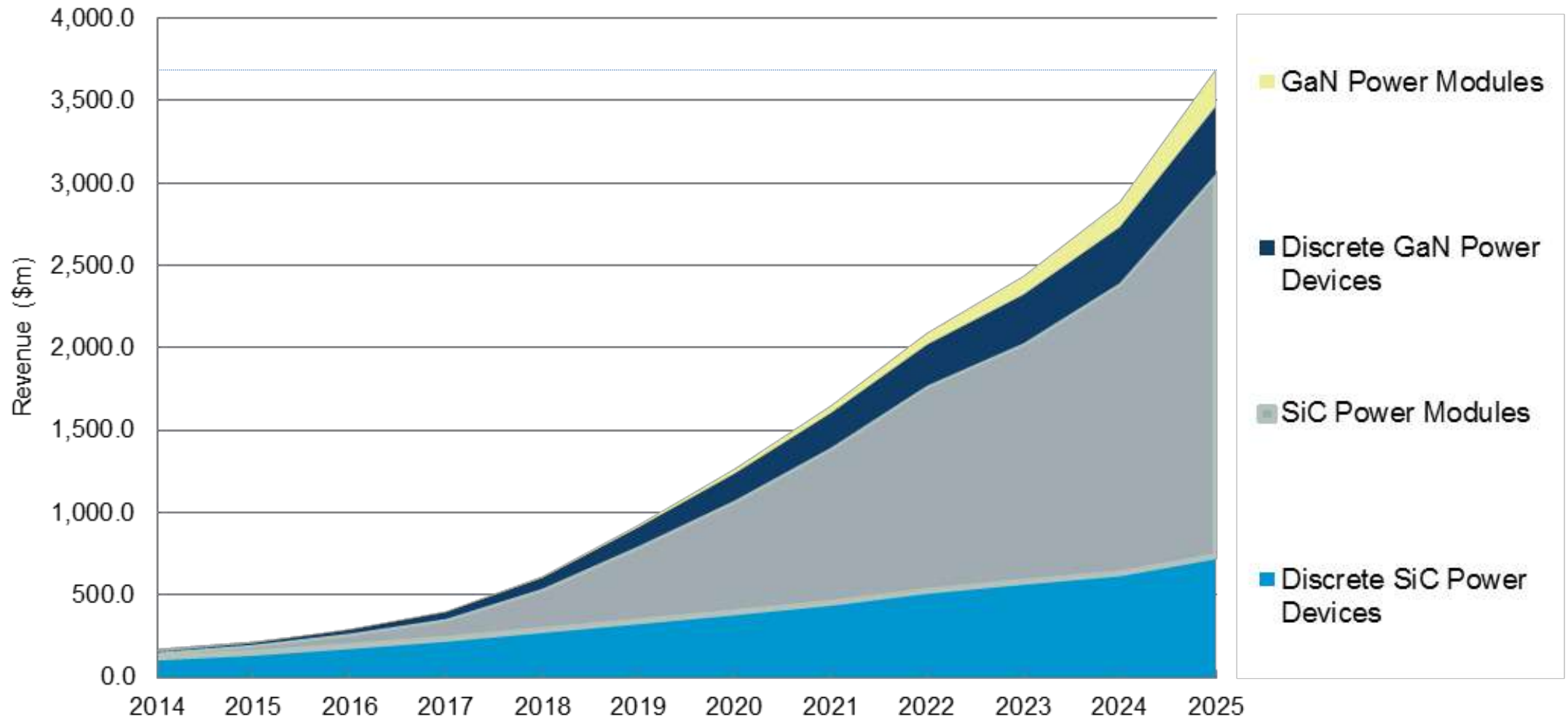




# SiC and GaN Power Semi Market Trend

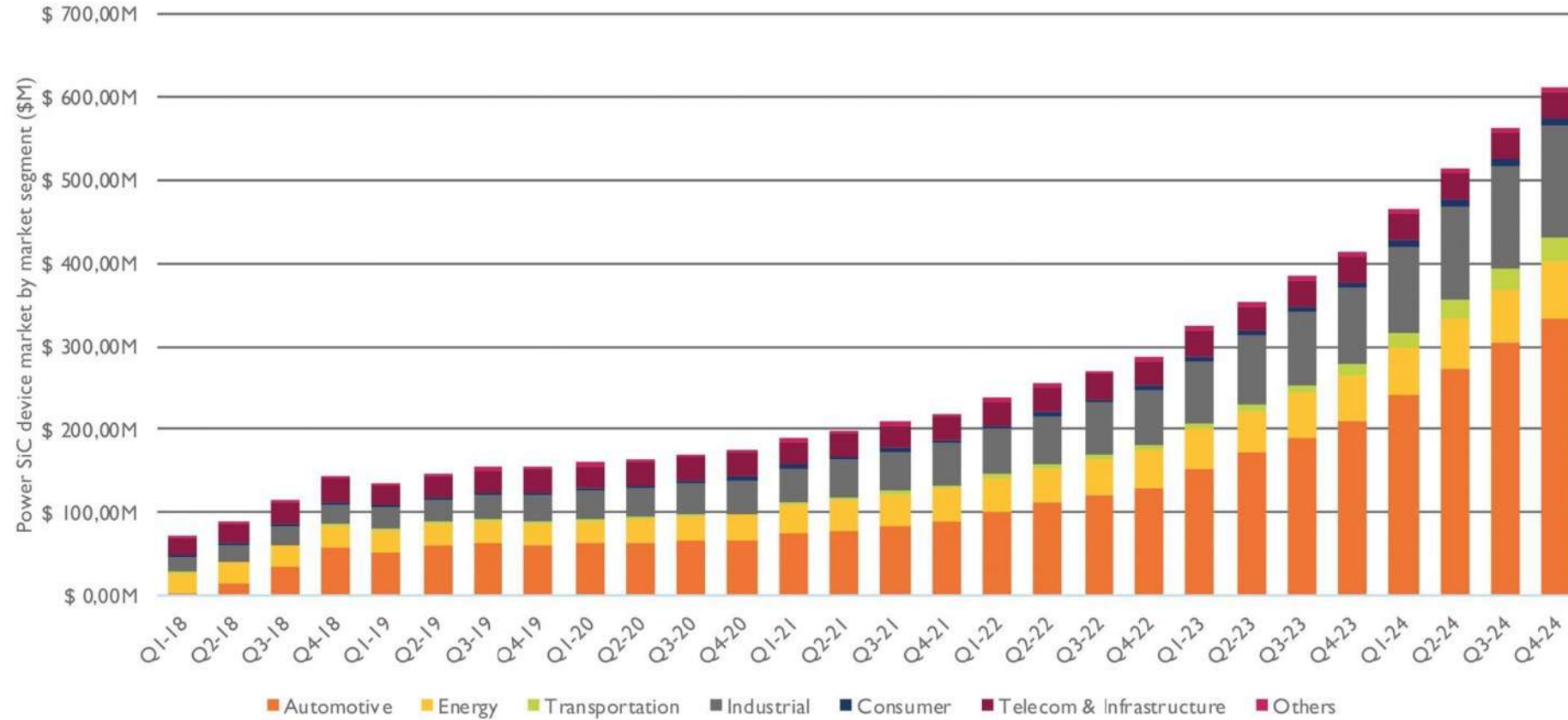
2025 up to USD \$3.7B

SiC in 84% & GaN in 16%



# SiC Device market trend - application

## Automotive application has over 50% market share 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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