

PANJIT International Inc





Aug. 2020

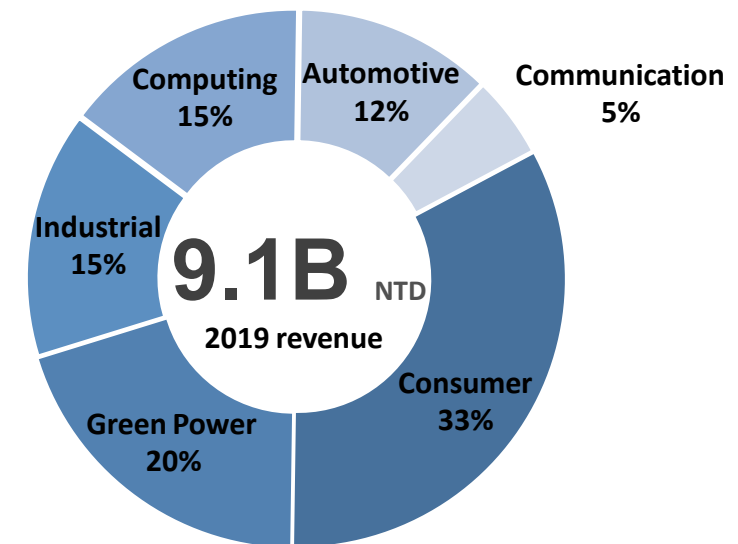
- 關於強茂
- 財務資訊
- 新技術發展

關於強茂

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





PANJIT
SEMI
CONDUCTOR

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



PYNMAX Technology Inc.
Est. 2000.03
Product: Wafer Foundry

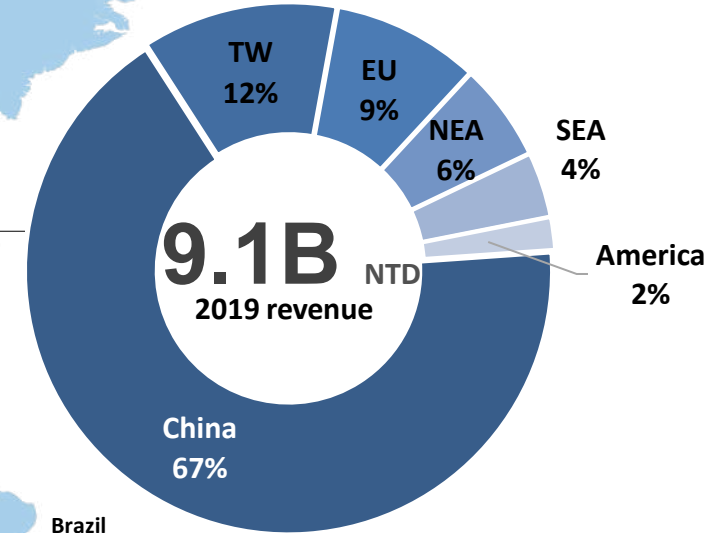


Sumnergy Co., Ltd.
Est. 2017.06
Product: BMS, Battery Pack
Application: EV, 3C

PANJIT Global Foot Print



Region Revenue




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

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:
1,700 KK /month



PANJIT Shandong, China

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



PANJIT Wuxi, China

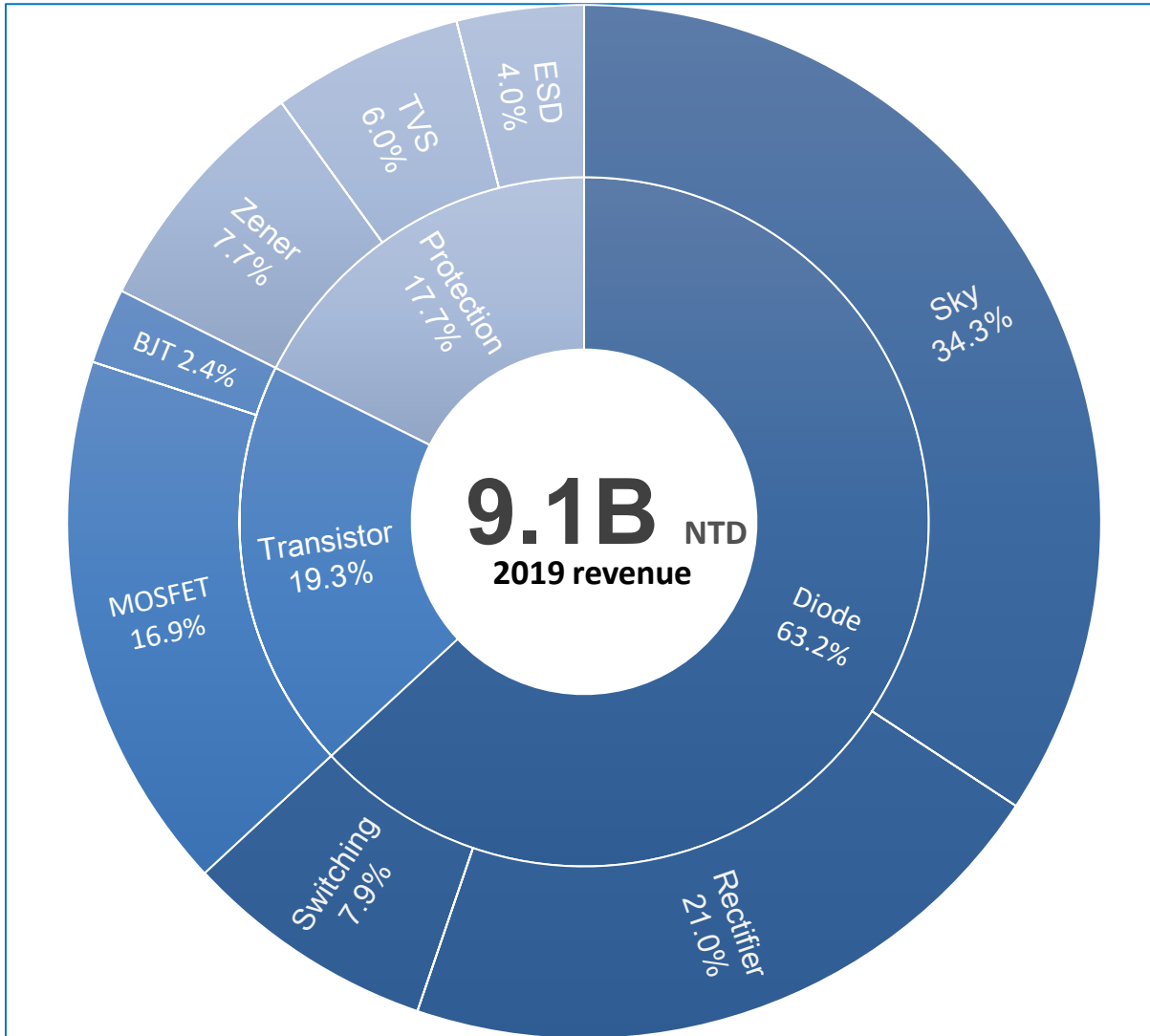
Package:
Power Package Devices

Capacity:
400 KK /month



Product Blue Print

Existing Products



MOSFET

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

IGBT

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

New Product Focus

FRED

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

SiC

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

Global Power Discrete Ranking & Market Share

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

財務資訊

Results summary 2019 1H vs 2020 1H

Year	Revenues	Gross Margin	EBITDA & Margin	EPS	Cash Flow from Operating Activities
2019 1H	NTD 4.43 Bn	21.3%	NTD 797.1 Mn 18.0%	NTD 0.71	NTD 656.3 Mn
2020 1H	NTD 4.72Bn	22.8%	NTD 908.3 Mn 19.2%	NTD 1.20	NTD 782.2 Mn
YoY	6.6% ↑			69.0% ↑	

新技術發展

Key Products and Applications

Industrial



- UPS
- Welder
- Industrial Motor

Consumer



- Home Appliance
- Digital TV

Green Energy



- PV Inverter
- ESS / BMS

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

Power System



- PSU for Network
- Server Power
- Data Center
- PC Power
- 5G Telecom Power

Motor Drive



- 2-wheeler / Drone
- Hand drill / Forklift

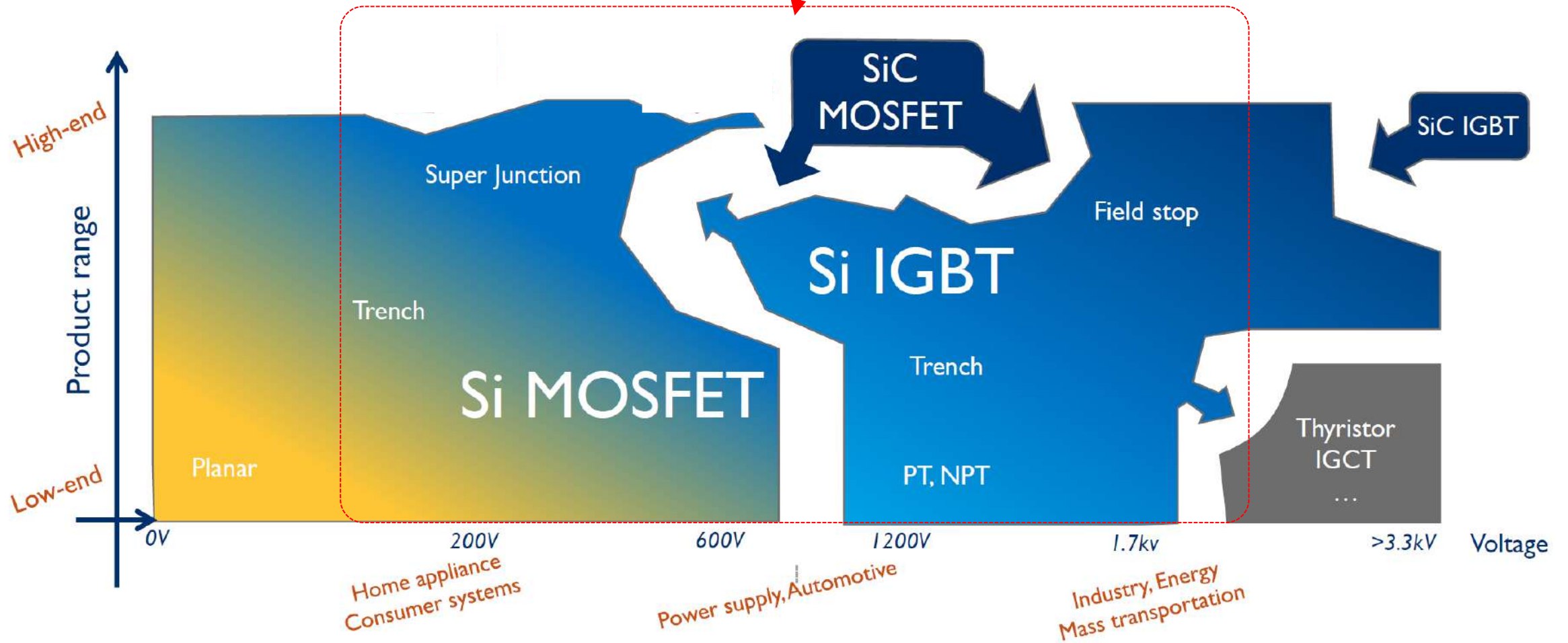
Automotive



- EV Charging Station
- xEV OBC / Inverter

PANJIT Focus Power Discrete Technologies

40V – 1.7 kV is PANJIT focus



Thank You

