

PANJIT International Inc



Jun. 2020

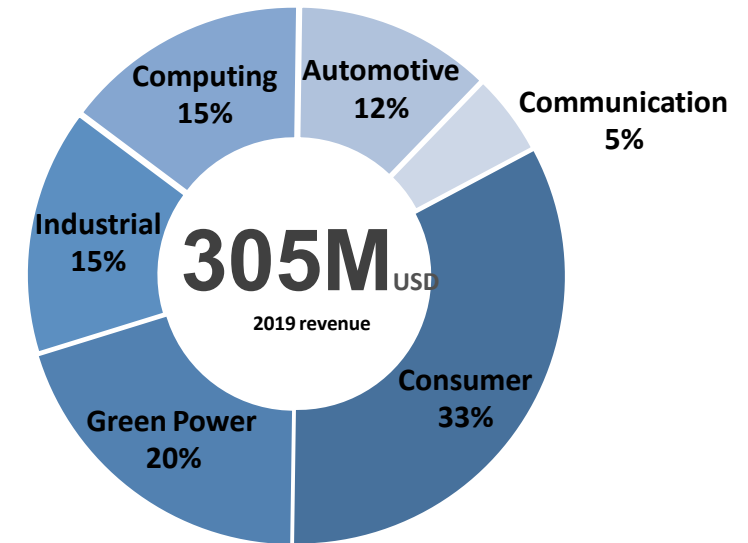
- 關於強茂
- 財務資訊
- 應用和市場趨勢
- 新技術發展

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: \$111 Million USD
- TWSE: 2481 (2001 IPO)
- 2019 Consolidated revenue: \$305 Million USD
- 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

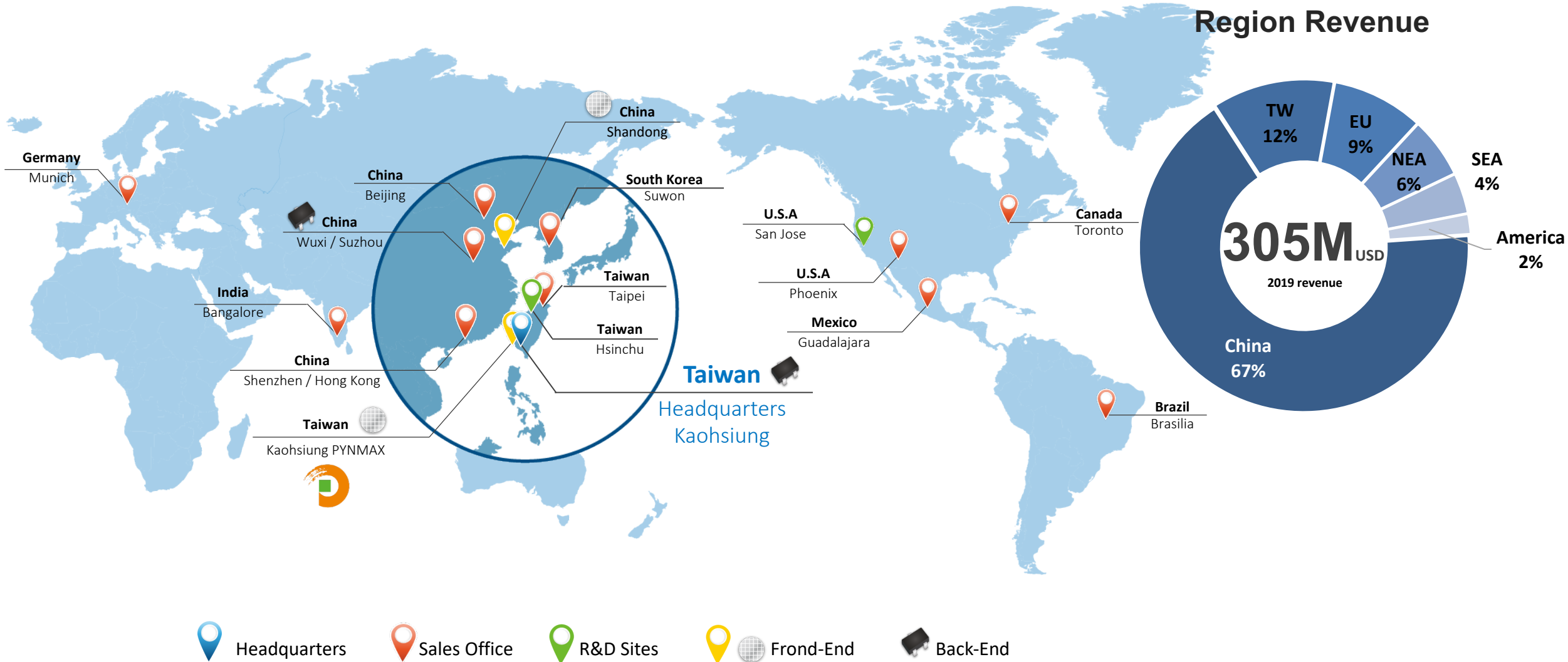


PYNMAX Technology Inc.
Est. 2000.03
Product: Wafer Foundry



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

PANJIT Global Foot Print





璟茂科技

- 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 Shandong

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


Assembly Capability



Kangshan, Taiwan

Package:
Small Signal Devices/SMD Bridge

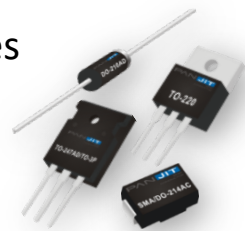
Capacity:
1,700 KK /month



Wuxi, China

Package:
Power Package Devices

Capacity:
400 KK /month



Product Portfolio

Diodes

- Switching Diodes
- Rectifiers
- FRED

Conventional MOSFET

- Small Signal MOSFET
- MOSFET 20 - 40V
- MOSFET 60 - 150V
- MOSFET 400 - 1000V
- Super Junction MOSFET 600 - 650V

Bipolar Transistors

- Small Signal Bipolar Transistors
- Low Vce(sat) Power Bipolar Transistors

Schottky

- Schottky Barrier 20 - 200V
- Silicon Carbide base Schottky Rectifier 650 - 1200V

Protection Device

- Transient Voltage Suppressors $\leq 6.6\text{KW}$
- General Purpose ESD arrays $\geq 0.2\text{pF}$
- Zener diode $\leq 5\text{W}$

New Tech. Development Blue Print

MOSFET

- SGT MOSFET 60 - 80V
- SGT MOSFET 100 - 150V
- SGT MOSFET 200 - 600V
- SJ MOSFET 600 - 650V

IGBT

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

Solid Portfolio

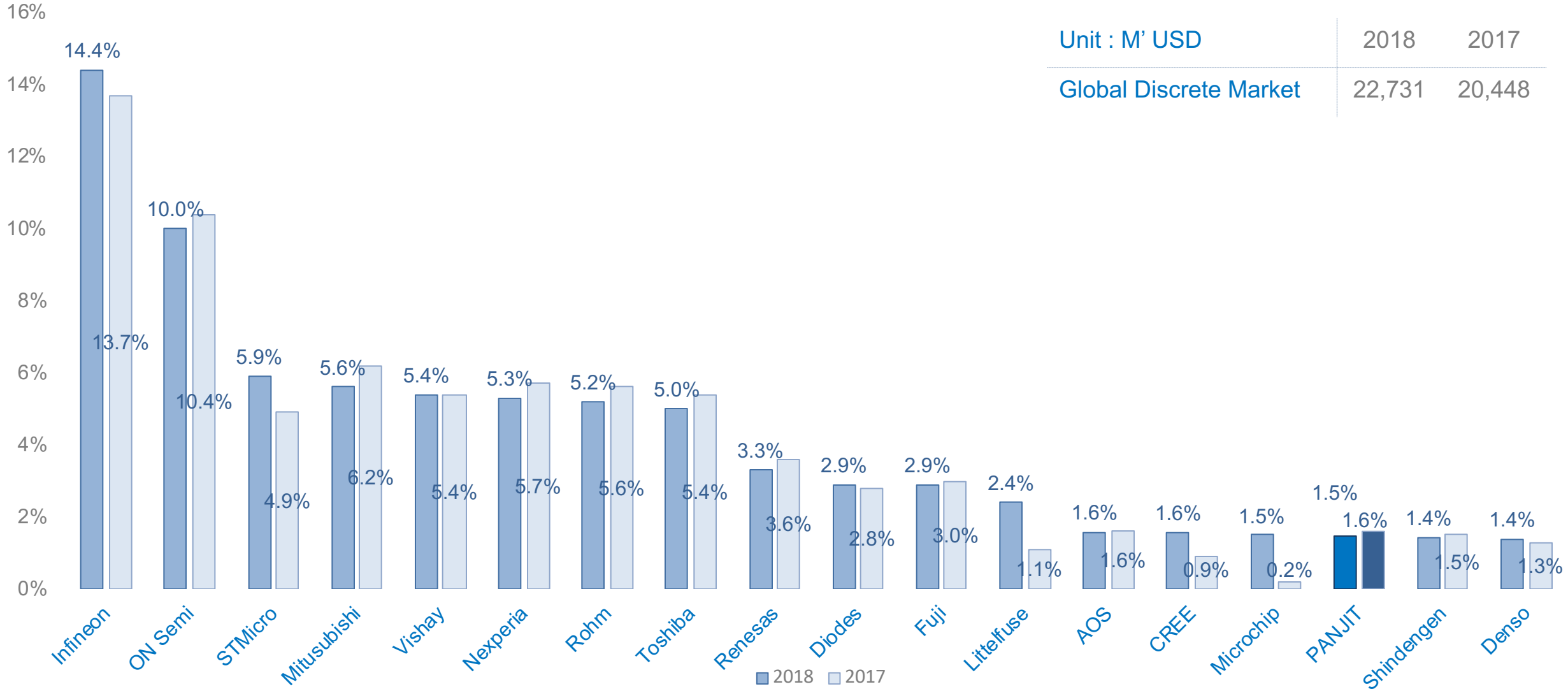
FRD

- Si FRD 600 - 650V
- Si FRD 1000 - 1200V

SiC

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

Global Discrete Ranking & Market Share



財務資訊

Results summary 2018 vs 2019

2018	Revenues	Gross Margin	EBITDA & Margin	EPS	Cash Flow from Operating Activities
	NTD 11.4Bn	22.3%	NTD 2,037 Mn 17.9%	NTD 2.41	NTD 1,835 Mn
2019	Revenues	Gross Margin	EBITDA & Margin	EPS	Cash Flow from Operating Activities
	NTD 9.1Bn	21.0%	NTD 1,538 Mn 16.8%	NTD 1.50	NTD 742 Mn

Results summary 2019 Q1 vs 2020 Q1

Year	Revenues	Gross Margin	EBITDA & Margin	EPS	Cash Flow from Operating Activities
2019 Q1	NTD 2.05 Bn	21.3%	NTD 388 Mn 19.0%	NTD 0.37	NTD 311 Mn
2020 Q1	NTD 2.14 Bn	19.8%	NTD 334 Mn 15.6%	NTD 0.31	NTD 219 Mn

Application Segment

Automotive



- Body
- xEV
- ADAS
- Infotainment
- Motor

Industrial



- Solar Junction Box
- LED Lighting
- Robotic
- Medical Equipment
- Motor

Power



- Quick charger
- Battery module
- UPS

Consumer



- UHD TV
- Set Top Boxes
- Camera
- Home Appliance

Communication



- Networking
- PoE
- VOIP
- Infrastructure

Computing



- Desktop PC
- Notebook PC
- Tablet
- Graphic Cards

新技術發展

Target Application for New Products

Industrial



- UPS
- Welder
- Industrial Motor

Consumer



- Home Appliance
- Digital TV

Motor Drive



- 2-wheeler / Drone
- Hand drill / Forklift



Automotive



- EV Charging Station
- xEV OBC / Inverter

Green Energy



- PV Inverter
- ESS / BMS

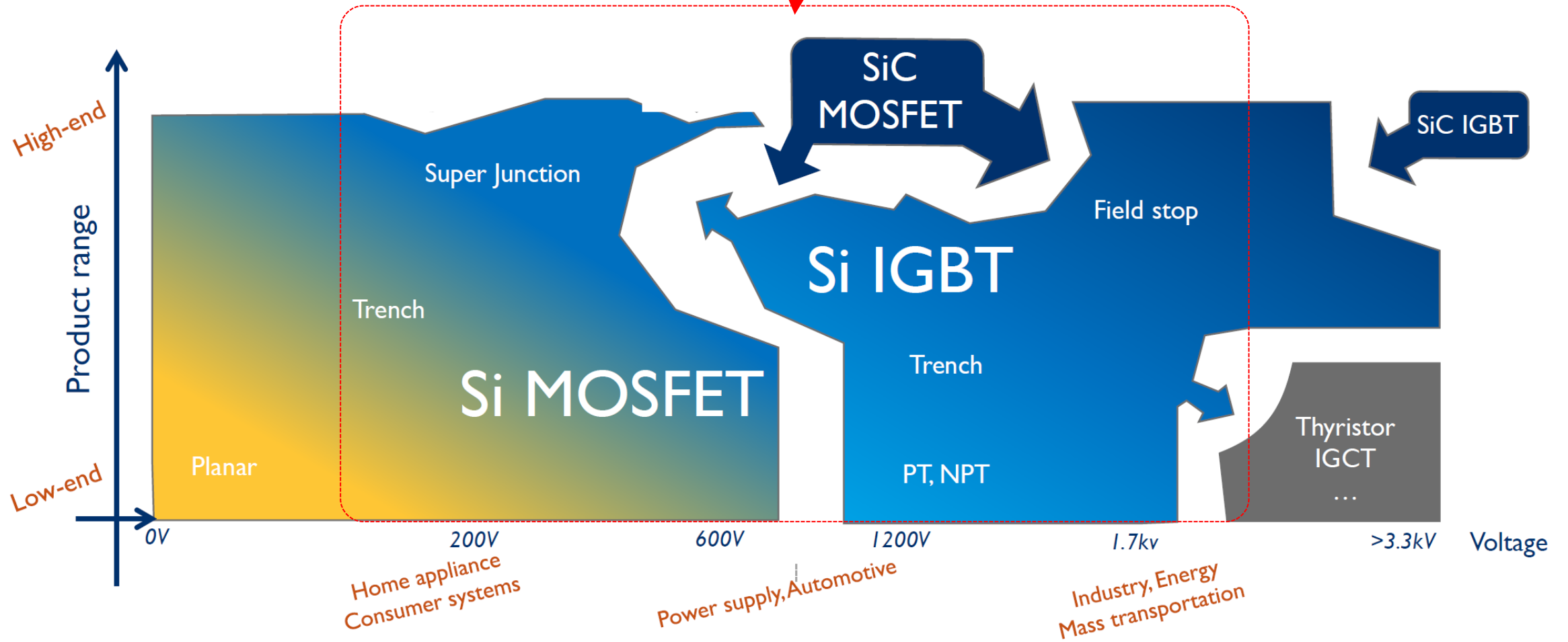
Power System



- PSU for Network
- Server Power
- Data Center
- PC Power

PanJit Focus Power Discrete Technologies

40V – 1.2 kV is PanJit focus



Thank You

