2024

ALLSOR

ALLSOR TECHNOLOGY CORPORATION

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Hsinchu

5F.-3, No. 6, Taiyuan 1st St., Zhubei City, Hsinchu County 302 , Taiwan (R.O.C.)
Tel+886-3-560-1155

Taipei

10F., No. 68, Sec. 4, Chenggong Rd., Neihu Dist., Taipei City 114 , Taiwan (R.O.C.)
Tel+886-2-2792-4598

New Taipei

9F., No.19, Lane 3, Sec. 1, Jhongjheng E. Rd., Danshuei Dist., New Taipei City 251, Taiwan (R.O.C.)
Tel+886-2-2620-1000

Dong Guan

Room 101, No.3 Tai he road Huan Zhu Li Village Chang Ping Town Dong Guan City Guang Dong Province China
Tel+86-769-82827098

E-mail：service@allsor.com

www.allsor.com.tw

Product line
SHORT FORM CATALOG

About Allsor

Founded in 2006, ALLSOR has continuously innovated technology for customers and provided excellent solutions for e-sports power supply, 5G technology, medical information transmission technology, smart TV, smart phone, tablet computer, voice assistant, wearable device And other products, provide lower power consumption and higher efficiency solutions and advanced IC applications for automotive electronics.

ALLSOR continues to uphold the business philosophy of integrity, professionalism, innovation and service. It is a professional electronic component technology distributor and technical agent, and integrates the best 3C product resources to integrate a marketing platform to assist customers and manufacturer partners to purchase their products . Enter the best sales platforms and physical channels at home and abroad, provide customers and manufacturer partners with timely and accurate sales structure data and product differentiation, continuously optimize complete product solutions and service solutions, and create leading business opportunities and create global commerce for customers and manufacturers Leading position, bringing continuous and excellent profits.

ALLSOR continues to implement the business philosophy of sustainable operation, and aims to create growth value with customers and manufacturers, and gradually become a trustworthy single/finished product sales integration solution for customers, and continue to expand domestic and foreign customer groups and establish globalization Marketing network, establish the best team at home and abroad, and become an innovative enterprise in the integrated marketing of electronic products with technology, professionalism and high-quality corporate culture, and insist on working with customers and manufacturers to stand out on the international stage with outstanding innovation.

Brand 2024

uPI SEMI
PANJIT SEMICONDUCTOR
CviLux
ERISED
PowTech
CySTek
Excelliance MOS
SYNC POWER CORP. 擎力科技股份有限公司
Elite Chinsan Electronic
华微电子 SINO-MICROELECTRONICS
SemiHow Know-How for Semiconductor
ATOM
transphorm
Jiejie Microelectronics
Littelfuse

Company Info

Jiejie Microelectronics

Windom builds the future to make life better

Founded in 1995, JieJie Microelectronics is a semiconductor manufacturer of thyristor devices and chip IDMs(integrated component manufacturers , covering the entire chip industry chain , Integrating chip design , manufacturing , packaging and testing)in the field of domestic power semiconductor devices. At the same time, it is also one of the earliest and most complete manufacturers of SCR and TRIC chips in China.

Registered capital of 70 million, with independent development capabilities and independent intellectual property rights, with its own product structure characteristics and unique technology.

obtained ISO9001:2008 quality management system, ISO14001:2004 environmental management system certification, OHSAS18001:2007 occupational health and safety management system certification. Products conform to UL ,ROHS, REACH and Pb-Free Lead Plating & Halogen Free requirements.

Milestones

1995
Eastablish JieJie Microelectronics

1999
Prepare to build a 3-inch chip production line

2000
Develop SCR and TRIC chips

2003
Mass production of SCR and TRIC chips

2005
• ISO9001 certification
• SGS & UL certification

2008
Add TO-3P, TO-220A, TO-251/252 package

2010
Launched TSS & TVS

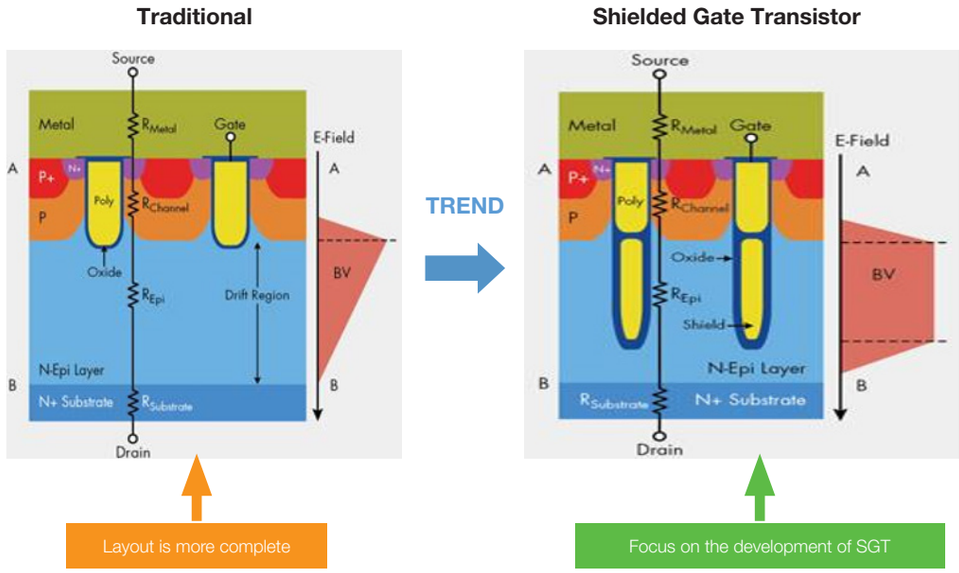
2012
ISO14000 certification

2013
OHSAS18000 certification

2014
Establish Jiejie Semiconductor

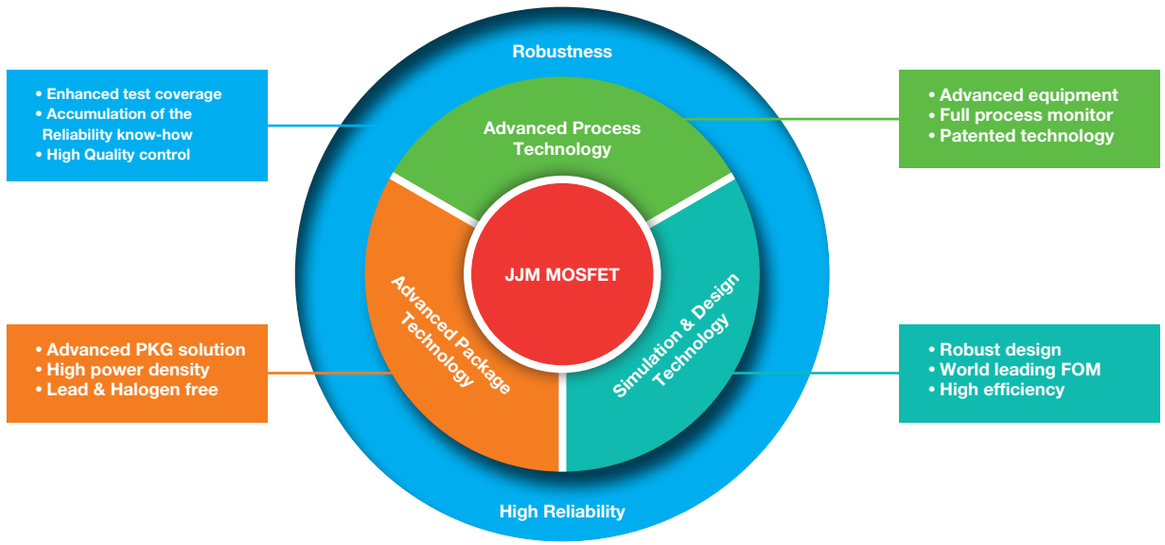
Medium/Low voltage MOS technology trends

SGT is currently the most advanced technology

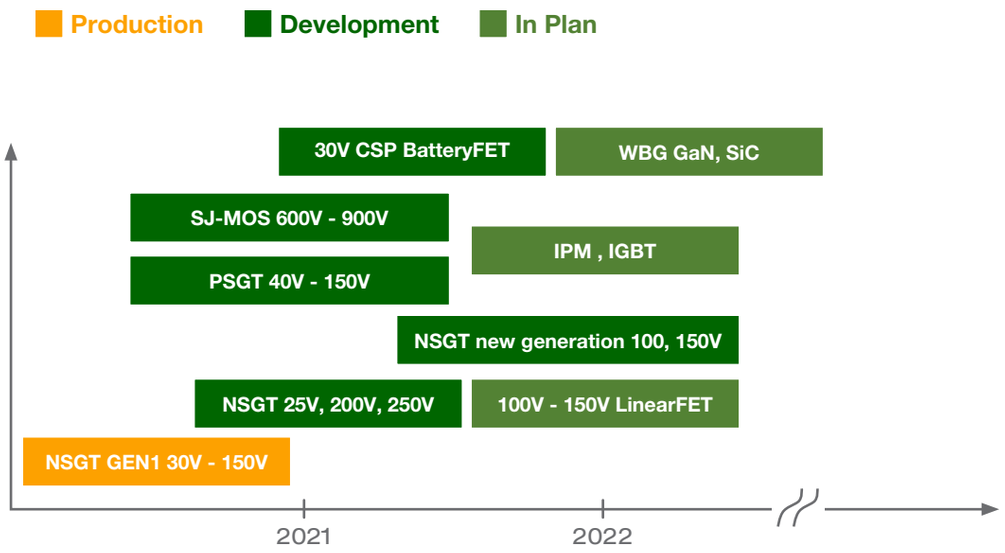


SGT MOSFET Significantly reduce losses and improve efficiency

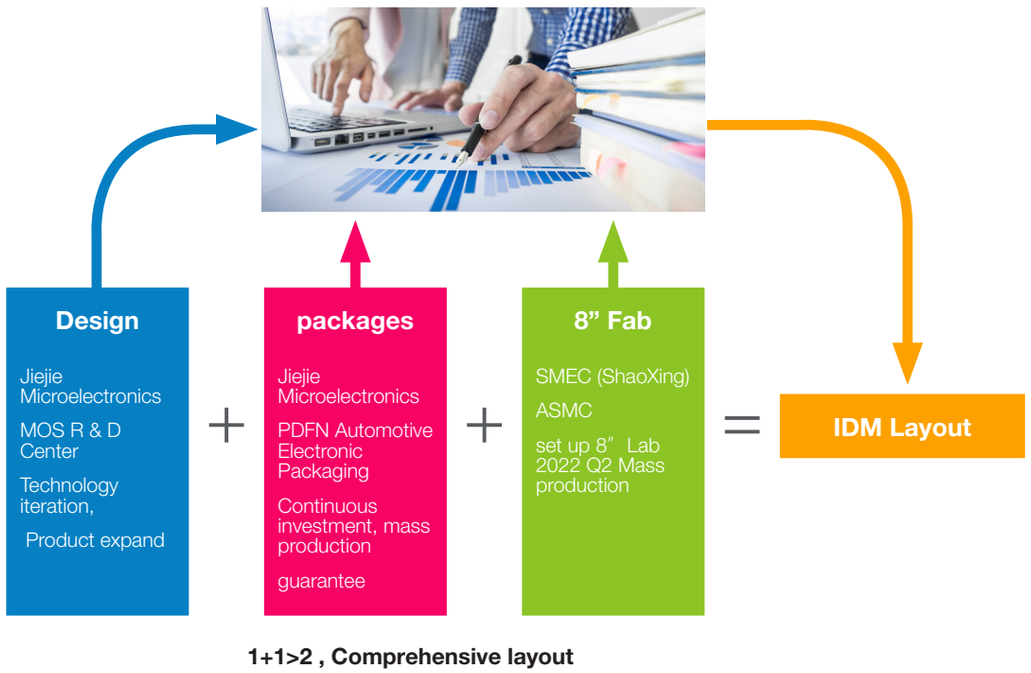
Advantage



Development Roadmap



Supply chain value proposition design



1+1>2 , Comprehensive layout

Company Info

transphorm

Transphorm is a Pioneer and Leading Provider of Gallium Nitride (“GaN”) Power Semiconductor Devices

Transphorm is a global semiconductor company, leading the GaN Revolution with the highest performance, highest reliability GaN devices for high voltage power conversion applications. To ensure this, Transphorm deploys its unique vertically-integrated business approach that leverages the industry′ s most experienced GaN engineering team at every development stage: design, fabrication, device and application support. This approach, backed by one of the industry′ s largest IP portfolios with over 1000 patents, has yielded the industry′ s only JEDEC- and AEC-Q101-qualified GaN FETs. Transphorm′ s innovations are moving power electronics beyond the limitations of silicon to achieve over 99% efficiency, 40% more power density and 20% lower system cost—and here′ s how we do it.

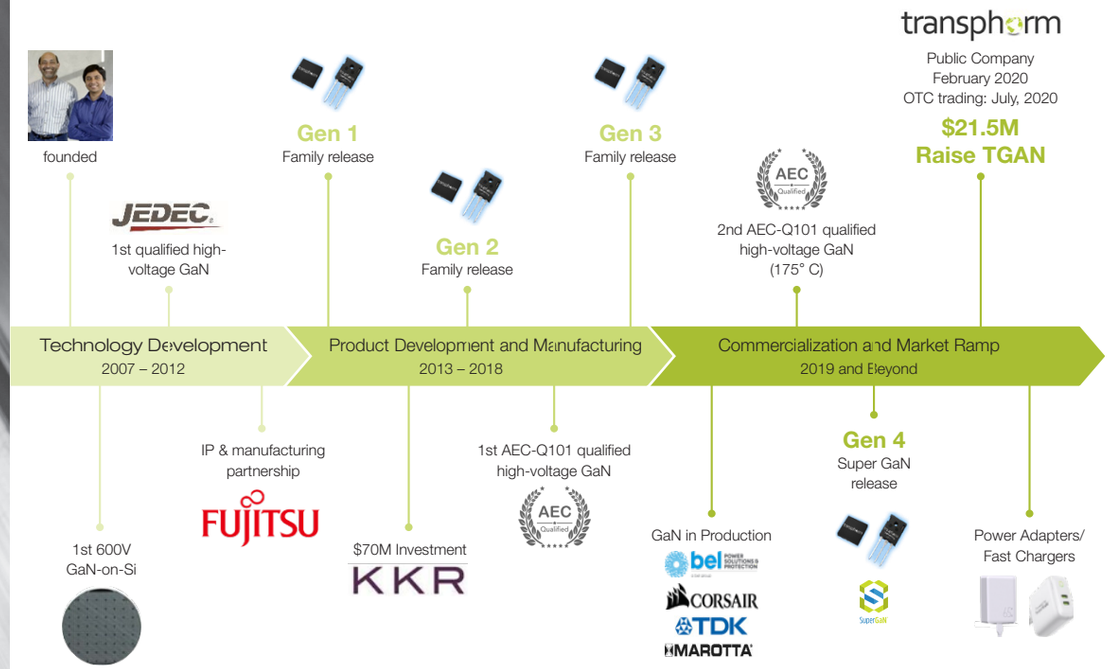
End Market Applications: Power Converters/Inverters

- Automotive EV and Charging
- Power Adapters / Compute
- Data Center / Comm Infrastructure
- Broad Industrial

Products

- Leader in high voltage 650V GaN, with a 900V offering
- Comprehensive portfolio with multiple generations; 10 billion operating hours and <1 failure per billion hours in field
- First JEDEC and AEC-Q101 qualified 650V devices available in the market

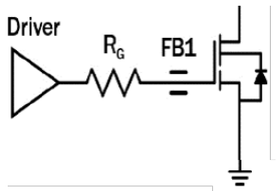
Milestones



Transphorm GaN Advantage in Power Systems

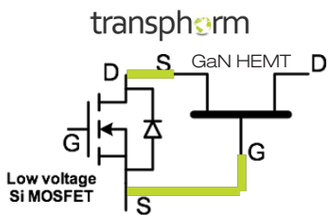
Efficiency, Simplicity of Design, and Gate driving, Reliability

Standard Gate Driver:
- Any AC/DC analog controller with gate driver
- Or discrete gate driver



Simplest GaN FET Drive

Higher Efficiency With High Reliability



HV GaN FET

Package Variety:
- Leadless PQFN
- Leaded TO-220, TO-247, TO-263

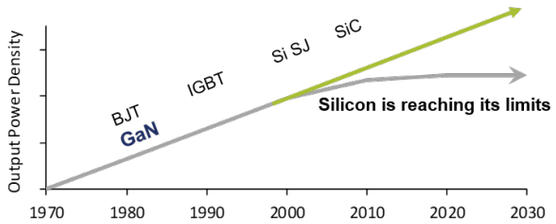
Higher Efficiency | **Smaller Size** | **Qualification** JEDEC + AEC-Q101 | **Field Reliability** > 10B hours < 1.0 FIT | **In High Volume Production**

GaN is the Future of Power Semiconductors

…and Transphorm is a Pioneer & Leader in GaN!

"Moore's Law" for Power Electronics

GaN Provides the Path to Continue to Scale Power Densities



GaN versus Silicon & Silicon Carbide (SiC)

Intrinsic Performance Advantages
- GaN offers higher efficiencies with lowest losses in power conversion at any voltage range
- GaN can operate at much higher frequency

Relative Cost Advantages
- GaN on Silicon less expensive than Silicon Carbide
- GaN offers lower system cost than Silicon
- Roadmap for GaN to approach cost parity with Silicon at device-level

99% Efficiency

40% Higher Power Density

20% Lower System Cost

Smaller, Lighter, and Cooler Power Systems Drives Increased Functional Value

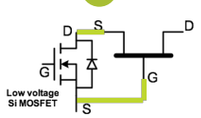
In-House Capabilities Span Complete Value Chain

Control over the entire GaN technology value chain

In-House Material Growth Capability (MOCVD and Epi Wafer)

Five 6-inch production reactors (two in Japan and three in Goleta)

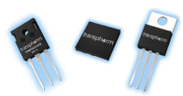
High-Volume Wafer Fab In Japan (Joint Venture)
- Capacity to handle tens of millions GaN parts / year, scalable on demand
- High volume 6-inch manufacturing (former high-quality Fujitsu Fab)

1 

GaN FET design

2 
Epi technology and manufacturing

3 
Wafer fab

4 
Packaging

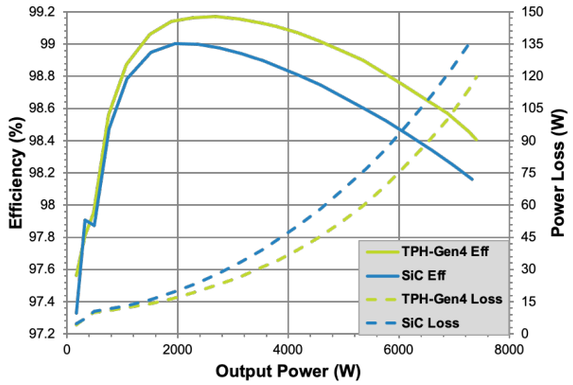
5 
Applications-driven resources

6 
End market/ application

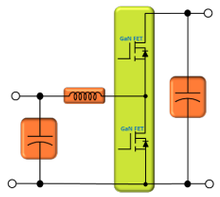
SuperGaN® TP65H035G4WS vs. SiC MOSFET

GaN wins at 100 kHz: up to 20% reduction in power loss 3 kW to 7.2 kW

Half Bridge Synchronous Boost Converter		
Specification	**GaN FET**	**SiC**
On resistance @ 25° C	35 mΩ	30 mΩ
Input Voltage (V)	240	240
Output Voltage (V)	400	400
Operating Frequency (kHz)	100	100
Gate drive voltage	0 to 12 V	0 to 18 V
Gate drive resistor	30 Ω	30 Ω



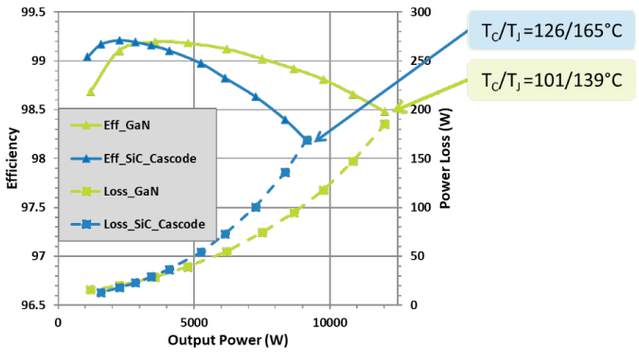
Comparable $R_{DS(ON)}$ devices at 25°C



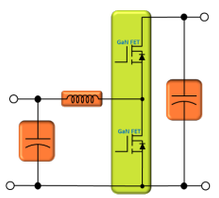
SuperGaN® TP65H015G5WS vs. SiC Cascode FET

GaN shows up to 30% reduction in power loss at 9.2 kW

Half Bridge Synchronous Boost Converter		
Specification	**GaN FET**	**SiC**
On resistance @ 25° C	15 mΩ	18 mΩ
Input Voltage (V)	240	240
Output Voltage (V)	400	400
Operating Frequency (kHz)	70	70
Gate drive voltage	0 to 12 V	0 to 15 V
Gate drive resistor	15 Ω	0/50 Ω



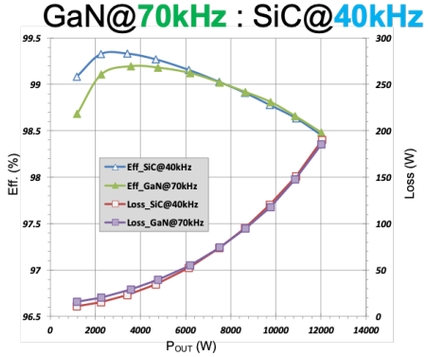
Device Power Loss Comparison at *9.2 kW
(*Limited due to SiC device junction temperature)



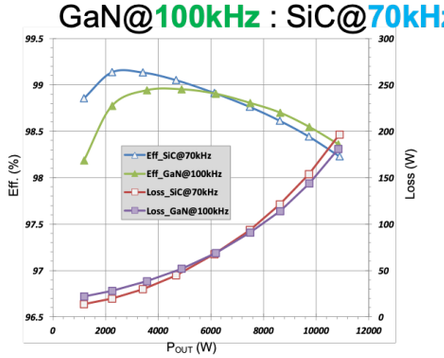
Performance Test—GaN vs. SiC at Various PWMs

Able to drive > 40% faster Switching and Achieve Similar Performance

GaN@70kHz : SiC@40kHz



GaN@100kHz : SiC@70kHz

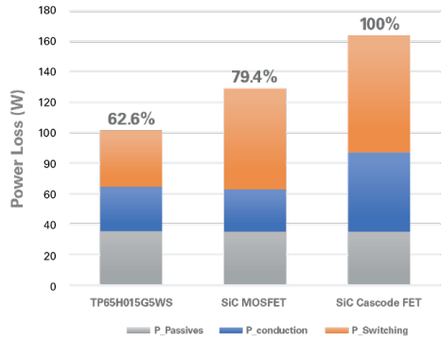


12 kW: V_{IN}:240 V, V_{out}: 400 V Half-bridge Synchronous Converter

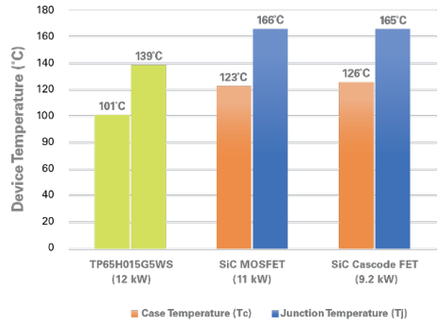
GaN at 70kHz matches SiC at 40kHz at high power levels (75% higher frequency)
GaN at 100kHz exceeds SiC at 70kHz at high power levels (43% higher frequency)

SuperGaN® TP65H015G5WS vs. SiC Cascode FET

Reduction of 17% to 37% Power Loss Across both SiC Devices



Device Power Loss Comparison at 9.2 kW



Junction Temperature at Maximum Power

Device Power Loss Comparison at *9.2 kW
(*Limited due to USiC device junction temperature)

Maximum power Comparison
(*SiC limited by device junction temperature)

Company Info

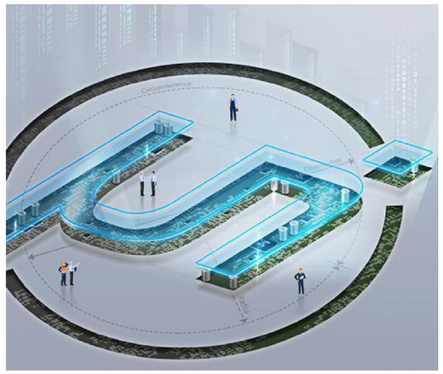
uPI SEMI

Group - Providing You Hybrid and High Power Density Semiconductor Solutions

uPI Semiconductor Corp., founded in 2005, is an IC design house designs and manufactures analog and mixed-signal power management solutions in electronic systems.

uPI Group is later associated in 2008, when UBIQ Semiconductor Corp. was founded for Power MOSFET and TVS solutions. Utilizing semiconductor designs and system application know-how, uPI Group positioned itself as a solution provider for hybrid and high power density semiconductor products in computing, gaming, and mobility markets, as well as proprietary solutions in automotive and industrial applications.

Our vision is to offer customers the total power management solutions of superior quality, performance, service, and cost. With more than 20 years of analog power and discrete device experiences, we offer high performance design services with full technology coverage and process development capability. Excellent wafer processing and deep packaging know-hows come standard by working closely with strategic foundries and assembly & testing partners.



Power Solutions for Today and Tomorrow

Milestones

W/W Top Supplier of GPU VCORE
- NVIDIA Certified Supplier
- Intel Certified Supplier
- AMD Certified Supplier

Growing MKT % of CPU VCORE
- AMD CPU
- Intel CPU

2006
- uPI Established for PMIC
- ATi VGA Major Power Supplier

2008
- UBIQ Established for MOSFET
- Launched VCORE Solution with Market Domination
- Phased-in Lenovo Supply Chain (ECSL)

2013
- ASUS invests uPI
- Japan Design Center Established
- Sony Certified Supplier
- Canon Certified Supplier
- Samsung Certified Supplier
- LG Chemical Certified Supplier0

2016
- Primary Power Solution on NVIDIA PascalTM Platform
- Launched IMVP8 VCORE for Intel Platform
- Launched Gen5 Solution for High Power Density VR

2017
- Launched High Performance VCORE Solution for AMD Graphic & Desktop Platform
- Launched 80V HB Driver for GaN FET
- Launched “Sakura FETTM” - Ultra-low Rds CSP MOSFET for Battery Pack

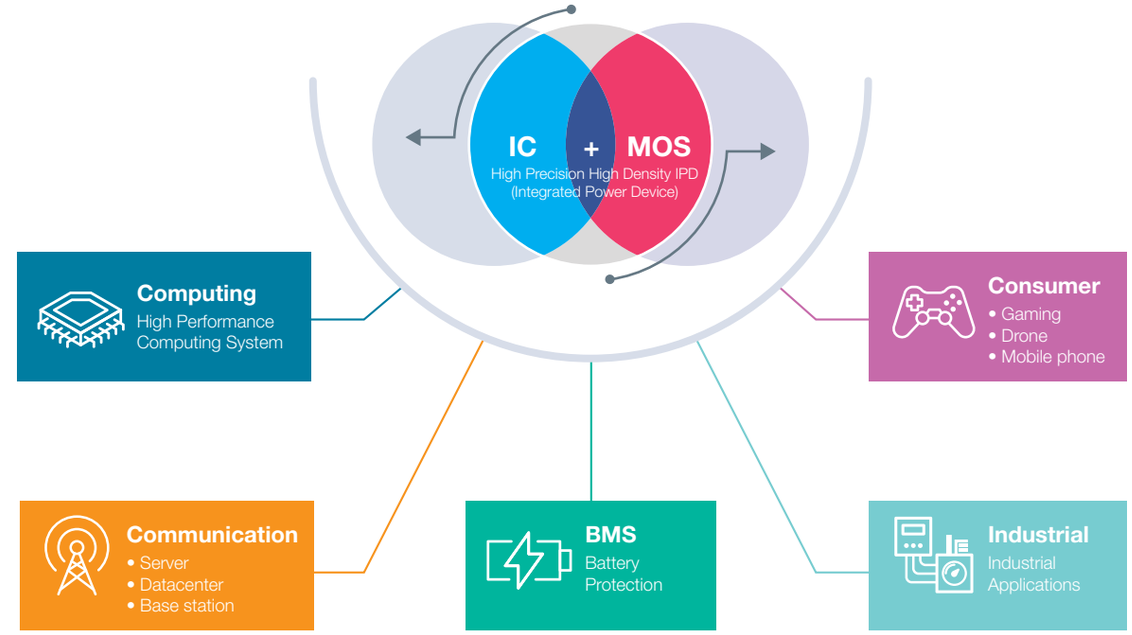
2018
- uPI Established US Division
- Preferred Power Solution on NVIDIA TuringTM Platform
- Entered Xiaomi Supply Chain

2019
- uPI & UBIQ Semiconductor Merged - The Era of One uPI
- Established US Division
- Launched Industrial-grade Smart Power Stage
- Launched MV MOSFET
- First AEC-Q100 Qualified Product Started Mass Production

2020
- UPC Established
- Launched Notebook VCORE
- Preferred Power Solution on NVIDIA Ampere Platform

Target Market & Segment

Hybrid and High Power Density Semiconductor Solutions



UPI Core Technology

Value Proposition

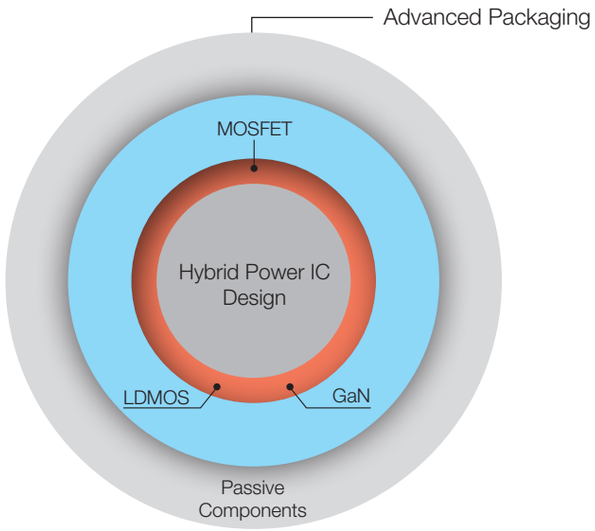
Hybrid and High Power Density Semiconductor Solutions

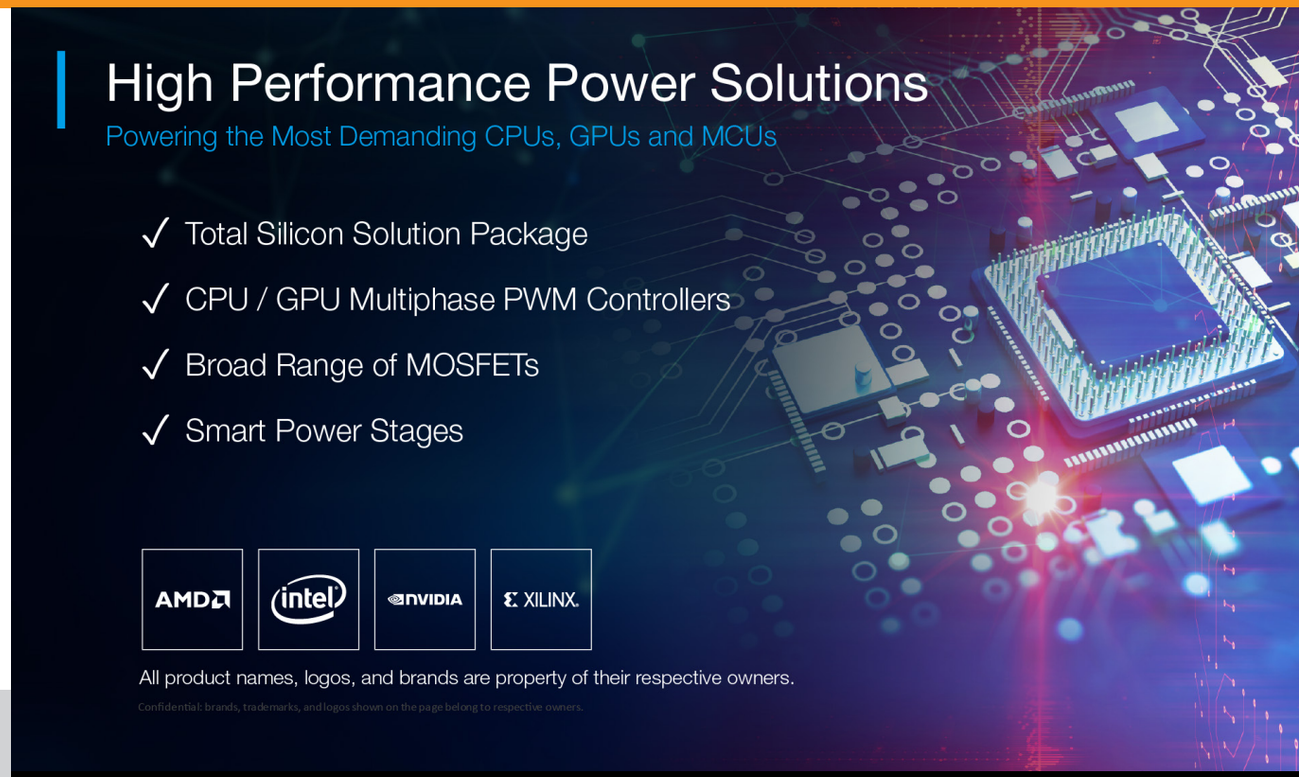
Technology & Innovation

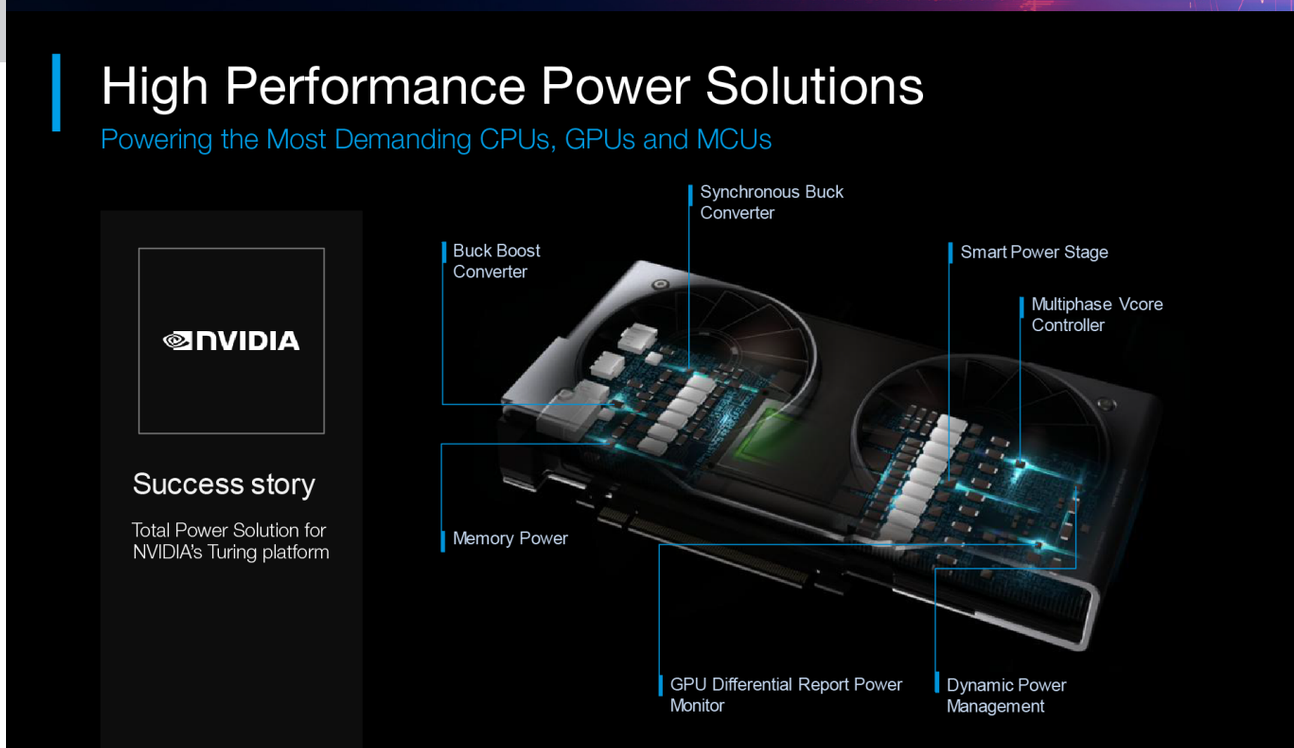
- Ultra-high Power
- Lower Core Voltage
- High Density & Efficiency
  - Higher Frequency
  - Smaller Size
  - Higher Efficiency

Flexibility

- Develop for System
- Develop with Alliance
- Develop for Customer







High Performance Power Stage

Smart Power Stage with IMON/TMON

Smart Power Stage

Precisely monitors the current (IMON) and temperature (TMON), best-optimized system size and efficiency.

uP9642

High Performance Enterprise Applications

QD9619

Cost Optimized High Performance Graphic and Notebook System

Battery Protection Integration

Reliable / Robust / High Performance

- ✓ Radiation Noise Immunity
- ✓ System Noise Immunity
- ✓ Turbo Boost Compatible

Driver for GaN Applications

Ultra-high Speed 80V HB

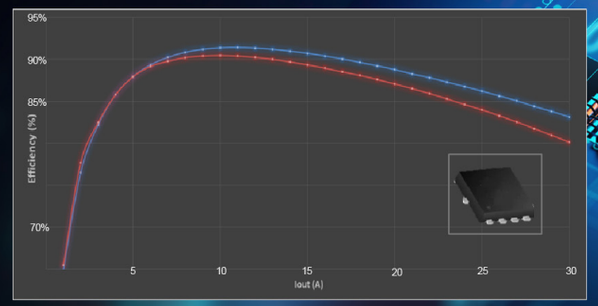
- ✓ Easy-to-use
- ✓ High Efficiency
- ✓ New Levels of Power Density
- ✓ Smaller, lighter, cooler

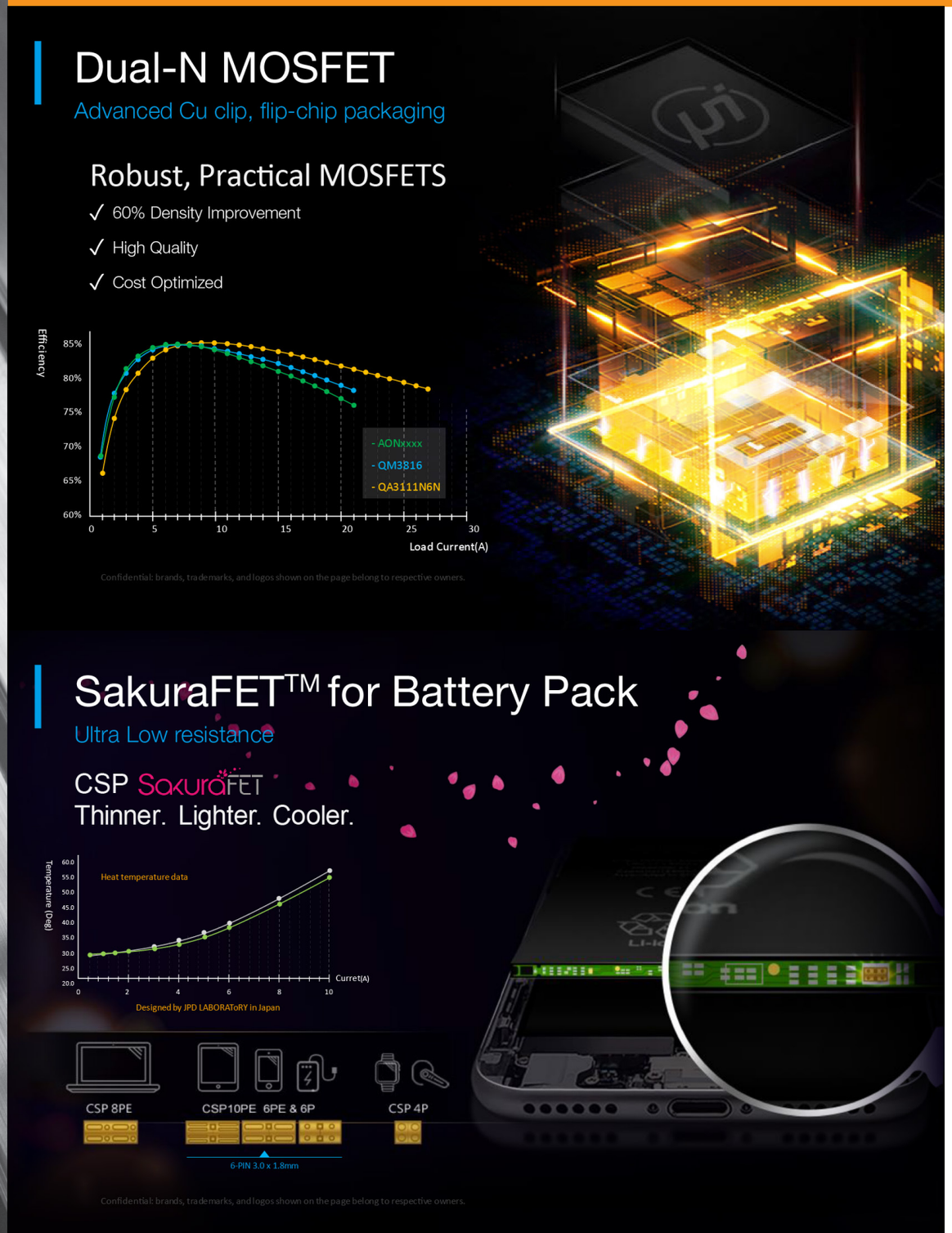
Gen 5 - Advanced Trench MOSFET

Highest Performance at 30~100V

Key Features

- Latest Technologies: Deep-Trench & Charge-balancing
- Best Balance Between Low Ron & Low Qg (FOM)
- Low RDS(ON) for Reduced I2R Loss in High Current Applications
- High Efficiency in Power Switching Applications
- 100% Avalanche Tested





Company Info

PANJIT SEMI CONDUCTOR

The aims of PANJIT are providing prompt services and best products for our customers, and continuing to improve its expertise.

Founded in May 1986

PANJIT is a public company founded in May 1986. We are a semi-conductor manufacturer, and have IATF-16949,ESD S20.20,ISO-9001,ISO-14001,OHSAS-18001 certifications etc..

Vertical Integrated Technology

PANJIT is vertically integrated with IDM design capability, own wafer foundries and state-of-art production lines.With insight observation and core technologies, PANJIT is able to continuously launch low profile products and accurate power rating devices which conforms to the customer needs.

PANJIT commits to serve customers with the best service, thus we have established sales offices worldwide. We have sites in North America, Germany, Korea and China which allows us to provide better and prompt service.

YOUR COMPONENT

OUR PROFESSION

Milestones

1986
Establish of PANJIT Sale discrete devices with the brand name: PANJIT

1999
PANJIT launches OCT in Taiwan

2000
-ISO 14001 cerificated
-PANJIT Wuxi Factory into operation
-Joint venture wafer fab Pynmax Technology set up

2001
-Launch Small Signal product in the market
-PANJIT launches IPO in Taiwan

2005
-Maxdiode joint venture with PANJIT
-Samsung Eco Partner certificated and Sony & Asus Green Management System Verification
-TS16949 certificated

2013
Launch Super Schottky series

2014
-High Voltage MOSFET in mass production
-Launch FRED devices
-Set up PANJIT Beijing

2015
-Launch SiC Schottky devices
-Launch Medium Voltage MOSFET devices

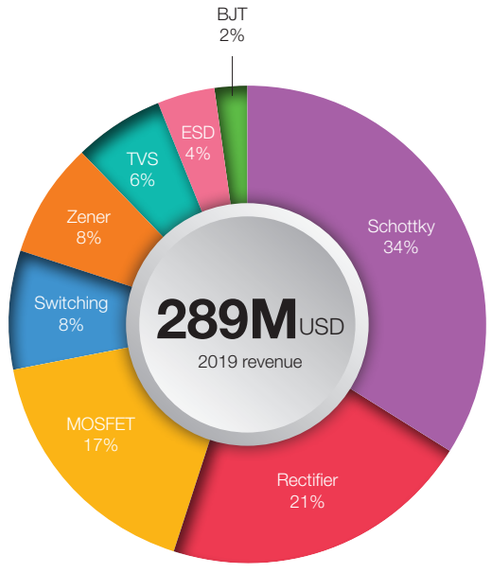
2016
Launch SBA series Schottky (ultra low VF / anti-reverse)

2018
Successfully passed the audit of full IATF16949:2016 certificate

2019
- IBU organization established, and R&D centers located in Hsinchu and San Jose, USA

Product bluerprint

Proportion of products



Product development blueprint

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

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

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

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

Products

Diodes
- Switching Diodes
- Rectifiers
- FRED

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 ≤ 6.6KW
- General Purpose ESD arrays ≥ 0.2pF
- Zener diode ≤ 5W

certificate

Standards	QS9000	ISO 14001	ISO 9001	IATF 16949	OHSAS 18001	ISO 45001	IECQ QC080000	ESD S20.20
PANJIT (TAIWAN)	✓	✓	✓	✓	-	✓	✓	✓
PANJIT (Wuxi)	-	✓	✓	✓	✓	-	✓	-
Pynmax	-	✓	✓	✓	✓	-	-	-

Core Value

By practicing our five core values, we create more value for our customers and industries, and become a good partner for our customers.

Accountability
We are proactive and brave in accepting challenges and will bring about fruitful results for each task carried out. Before a decision is made, everyone is entitled to make his/her voice heard. After a decision is made, it is respected unanimously and will be enforced to fulfill the ultimate goal. Courage is demonstrated when one steps into the white space.

Customer Focus
We are able to help internal and external customers increase their value and think ahead for the customers. As long as a promise is made, it will be fulfilled. Everyone involved in the Company will be aware of customer demand.

Mutual Trust and Collaboration
We are devoted to building a reciprocal and mutual-trust aura at work taking into consideration the maximum interest of the Company.

Innovation
Product innovation continues to address market demand. Innovation in the midst of culture answers to the corporate culture. Innovation during service makes external and internal customers satisfied.

Learning and Growth
Each individual is keen to learn, which helps accumulate the knowledge and skills required to support daily operations. By constantly enriching oneself, one gets empowered in undertaking responsibilities.

Business Concept

PANJIT holds the spirit of "Innovation", "Development", "Responsibility" and "Sustainability" and has “treating everyone/everything with integrity” as its underlying belief.

Innovation
Implementation of creative ideas to develop value

Development
Continuous positive improvement and learning

Sustainability
Sustainable development and protect the environment

Responsibility
Complete promises and be responsible for final results

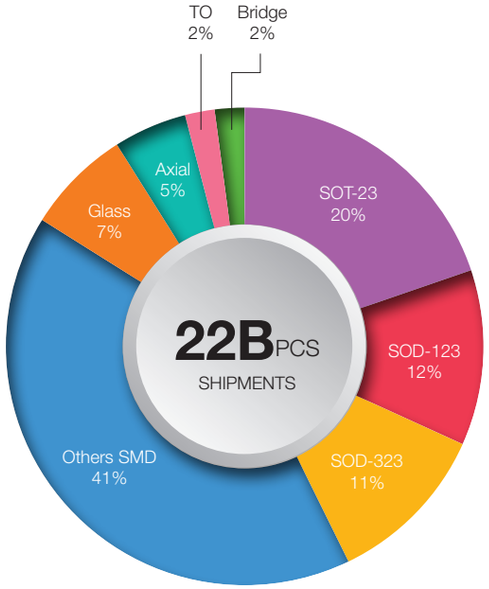
Fab And productivity

PYNMAX
- 4”/5”/6” Wafer:70,000 PCS/M
- 5”/6” Schottky Wafer:50,000 PCS/M
- 6” ESD/TVS Wafer:3,000 PCS/M
- 6” Zener Wafer:3,000PCS/M
- 8”:Setting up

PANJIT (Shandong)
- 4” ESD/TVS Wafer:25,000PCS/M

Packaging and Productivity

RATIO



Productivity

PANJIT (TAIWAN)
- Packaging
  Small signal & SMD Bridge
- Productivity
  1,700KK/M

PANJIT (Wuxi)
- Packaging
  Power device & Axle lead
- Productivity
  400KK/M

Company Info

CviLux

CviLux was founded in 1990 under the leadership of Chairman Yang Chao Chun, the business philosophy is active, innovative, and effective. We are a world-leading OEM manufacturer of connectors, flat flexible cables, and cable assemblies which are used to the electronics industries such as industrial, laptop, automotive, communications, optoelectronics, IoT, computers, etc.

Our customers include some of the international renowned manufacturers, and our products are distributed to the EMS qualified manufacturers around the world including Europe, Asia, and America. We obtained the international quality systems and electronics industry certifications.

CviLux is a financially stable company listed on the TWSE (8103.TW), the headquarter is in Tamsui and the main manufacturing facilities located in Tamsui, Dongguan, Suzhou, Chongqing, Anhui, and Laos. CviLux aims to become a world-leading corporation in profitability and corporate branding. The vision is to have our shareholders and employees be part of the future success, when our products connect the world to you.

Strength

- Public Company under Well-organized Financial Condition
- Qualified Supplier for well-known EMS Plant around the world
- Well-developed Global Sales Channels
- Turnkey solution from Product Development to Production
- Full Operation and Management Information System
- International Qualification and Industrial Certificate

CONNECT THE WORLD CONNECT THE FUTURE

Milestones

Established in 1990, CviLux's main business was trading connector-related injection-molding products and components.

- In 1996, CviLux was incorporated, and established the Product R&D Department. In the same year, CviLux obtained the ISO 9002 certification.
- In 2000, the mold processing and manufacturing center was established in Changping, Dongguan, which is responsible for the R&D, design, and production of precision mold, jigs, and automatic machines.
- In 2002, CviLux established CviLux Electronic Technology (Suzhou) Co., Ltd., the main businesses are manufacturing and sale the connectors and flat flexible cables. We obtained ISO 9001 certification. In September, 2002, CviLux became a publicly owned corporation.
- On May 22, 2003, CviLux was listed on the ESM and established Dongguan Qunhan Electronics Co., Ltd., engaged in the manufactures and sales of flat flexible cable and cable assembly.
- On March 29, 2004, CviLux was listed on the GTSM.
- In 2005, CviLux obtained ISO 14001 certification.
- In 2007, Hanchun Investment Co., Ltd. was established, the main business is for general investment.
- On September 29, 2009, the Company was listed on the TWSE.
- In 2010, the Dongguan Changpingyi factory was turned into CviLux Electronics (Dongguan) Co., Ltd., the main businesses are manufacturing and sale the connectors. In the same year, CviLux established CviLux Electronic Technology (Chongqing) Co., Ltd. with the main business of manufacturing and sales the flat flexible cables and cable assemblies. CviLux Electronics (Chongqing) Co., Ltd. obtained QC080000 certification.
- In 2012, CviLux obtained ISO 14064 and ISO TS16949 certification.
- In 2013, CviLux Technology (Shenzhen) Co., Ltd. was established, the main businesses are manufacturing and sales the connectors. In the same year, the Electronic Products Division is established for the develop and sale the Apple MFi licensed and certified electronic accessories including storage drives.
- In 2014, CviCloud Information Technology (Shenzhen/Hong Kong/Taiwan) Co., Ltd. was established with the main business of software and hardware system integration services. CviLux obtained OHSAS18001 certification.
- In 2015, AnHui CviLux Technology Co., Ltd. and CviLux Lao Co., Ltd. were established, the main businesses are manufacturing and sales the connectors and flat flexible cables.
- In 2016, Hanrou International Co., Ltd. was established with the main business of develops and sales of skin care products. In the same year, CviLux Type C Cable is certified by the USB IF.
- In 2017, CviLux was established in the United States, and in the same year, CviLux was awarded the TOP5000 The Largest Corporations in Taiwan by CCIS.

Certification

Quality Policy

Committed to quality improvement and stability, and gained customer trust and satisfaction

Enviromental Policy

CviLux Group is a leading manufacturer of connectors, flat flexible cables, and cable assemblies. The main materials used in the production process are: copper, plastics, and cables. We aim to protect the environment and achieve a sustainable development. CviLux Group is committed to continuous environmental improvement through:

- Regulatory compliance: comply with both local environmental regulations and international environment standards.
- Reducing production waste: promote production waste reduction to ultimately achieve pollution prevention.
- Green and sustainable design: adopt green product designs to reduce environmental impact.
- Education and training: regularly implement environmental education and training for all employees to raise environmental awareness in the workplace

Safety and Health Policy

- Comply with safety and health laws, regulations, and other requirements
- Promote safety and health management education and training to raise the employees‘ safety and health awareness, establish and review safety and health management objectives
- Ensure workplace safety by strict pollution source control, infectious disease prevention, safety and sanitation facilities improvement, and hazard elimination
- Establish a good communication with the employees, suppliers, contractors, and related groups to ensure the CviLux environmental protection policies and requirements are fulfilled

Certificates

	ISO 9001	IATF 16949	ISO 14001	QC 080000	ISO 45001	ISO 27001
Taiwan	v		v	v		v
Dongguan	v	v	v	v	v	
Qunhan	v	v		v	v	
Suzhou	v	v	v	v	v	
Chongqing	v		v	v	v	

Environmental Protection (ESG)

Environmental/HSF Policy

CviLux Group is a professional developer, manufacturer, and seller of connectors, flat flexible cables and wire harnesses. The main materials used in the production process are: copper, plastic, and wires. In order to do our part for environmental protection and ensure business sustainability, CviLux Group is committed to continuous improvement as well as the following:

- Compliance with Laws and Regulations: To comply with relevant environmental protection laws and regulations, and to strive to meet relevant international environmental protection standards.
- Waste Reduction in Production: To continue promoting waste reduction in production to make good on our commitment to prevent pollution.
- Green Design: To develop green product designs to reduce their environmental impact.
- Education and Training: To continuously organize environmental awareness education and training for all employees and to create an environmentally friendly workplace.

Safety and Health Policy

- To follow and comply with relevant safety and health laws, regulations, and other necessary requirements.
- To promote education and training activities related to safety and health management, to improve employees' safety and health awareness, while continuing to set and review safety and health management goals.
- To pay attention to pollutant control and the prevention of infectious diseases.To improve safety and health facilities and strive to eliminate harmful elements and conditions to ensure a safe and healthy workplace.
- To establish robust communication channels to communicate our environmental safety policies and related requirements to employees, suppliers, contractors, and relevant groups.

Company

CYStech Electronics Corp. is one of Taiwan's leading companies in Power Device developing & supplying globally.

With more than 19 years' experience in developing technology and more than 25 years' experience in manufacturing Power Device , we are clear understanding of your specific needs to help you creat a competitive advantage.

With stringent control in manufacturing process , the superior quality products are broadly applied in the computing , consumer electronics , communications and industrial segments.

BACKGROUND

R&D 19 Years Design Experience in Power Device
PRODUCTION 25 Years Production Experience in Power Device

COMPANY QUALITY POLICY

Follow the requirements of environment and quality system,implement the quality service policy of CYS thoroughly.

Advantage

Milestones

2002/04
CYSTECH was founded in 2002

2005
Release PNP HV BJT and PNP LV BJT to network market.

2008
Release NPN HV Darlington BJT(350V/15A) to automotive ignition market.

2011
Release 100V/150V/200V N-MOSFET to automotive regulator market.

2013
Release 30V~150V N-MOSFET to TV power / BLDC / network / BT audio market.

2015
Release snubber diode to power market

2016
Release low-cap MOSFT to power market

2017
Release 40V high speed MOSFET to power tool market .

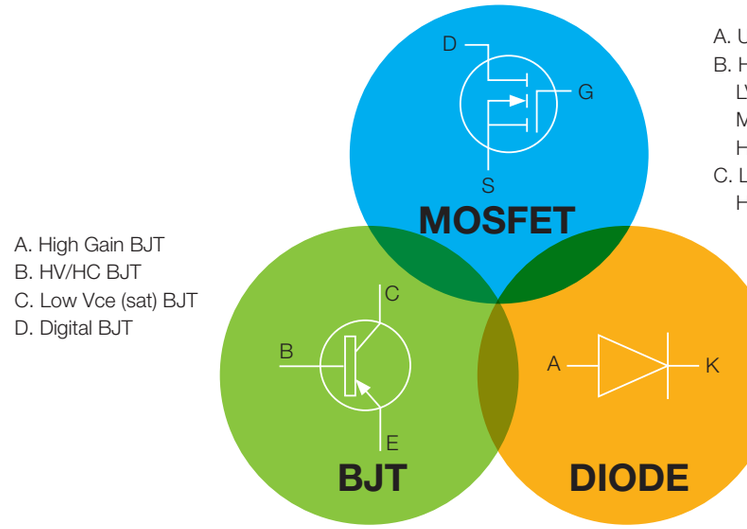
Stock publicly issued in 2017/08

2018-2019
Release 100V/150V high speed MO SFET to network & power market

2020-2021
Release 200V high speed MOSFET to network market.

Become an OTC company in 2021/02

Product overview



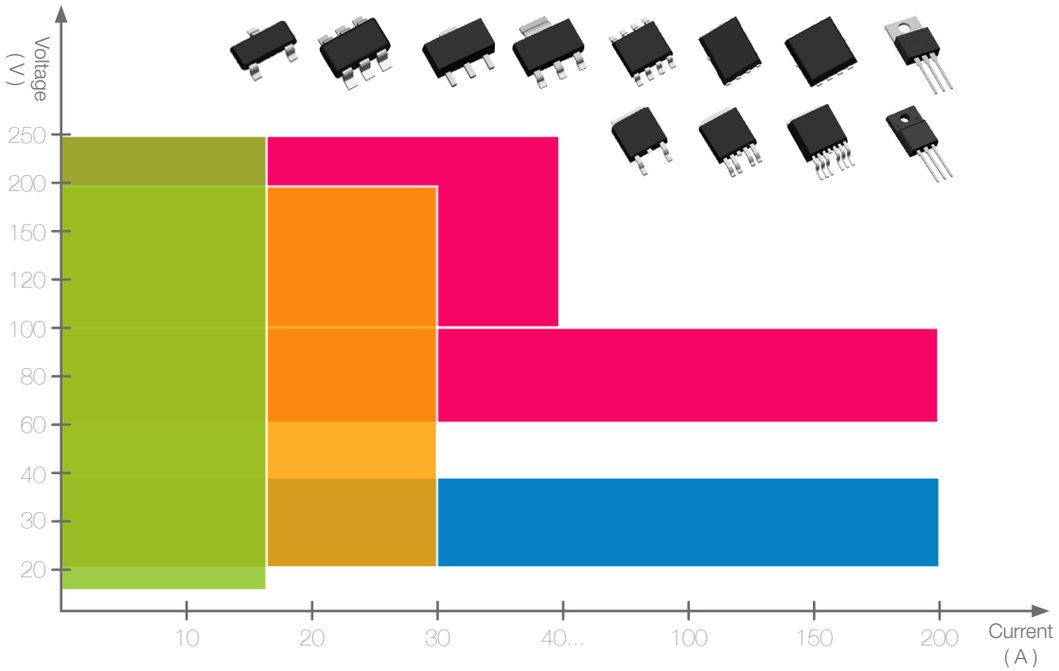
A. Ultra LV MOSFET (14V/16V)
B. High Speed MOSFET
LV:20V/30V/40V/60V
MV:80V/100V/150V
HV:200V/250V/300V
C. Low Ron MOSFET
HV:500V/600V/700V

A. High Gain BJT
B. HV/HC BJT
C. Low Vce (sat) BJT
D. Digital BJT

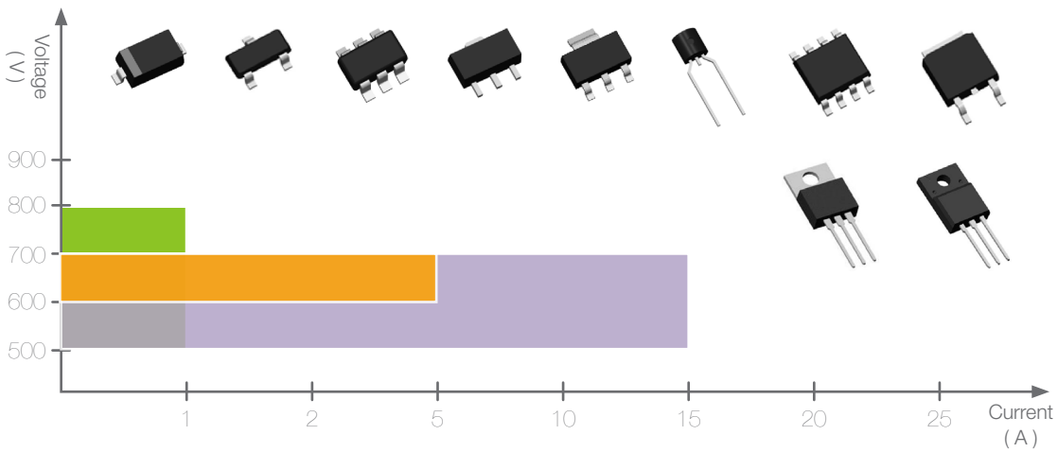
A.Power saving Diode
B.Low VF SBD

Product lines

LV MOS HV MOS BJT Schottky Diode



HV MOS BJT Sunbber Diode



Quality Assurance System

- Quality engineering schematic
- Process conditions audit
- Exception Management

- Finished goods quality control
- ISO system maintenance
- Reliability test for NEW products
- Reliability test for MASS production
- Customer's feedback process
- Abnormal product traceability & management
- Tracking the effectiveness of the improvement

Product Roadmap (MOSFET)

		2019	2020	2021	2022	2023
N-Channel	12V/16V	Trench MOS			High Speed	
	20V/30V/40V	Trench	High Speed			
	60V/100V/150V	High Speed				
	200V/250V/300V	Trench MOS			High Speed	
	500V/600V/700V	Trench MOS			High Speed	
P-Channel	12V/16V	Trench MOS				
	20V/30V/40V	Trench MOS			High Speed	
	60V/80V/100V	Trench MOS			High Speed	
	150V/200/250V	Trench MOS			High Speed	
	500V/600V				Trench MOS	
400V/600V IGBT					Trench IGBT	

Embedded ESD Protection for all product lines is available!

Company Info

Excelliance MOS

Excelliance MOS Co., Ltd. (EMC), founded in 2008, is a power device and IC design company, specializes in power semiconductor process development, high efficiency power device, IC and system design by the capability of vertical integration.

The manager and technical teams of EMC have over 15 years experience and had demonstrated their capability successfully. The developed devices can be applied widely to the power system of electronic products, such as, personal computer, notebook, pad, monitor, TV, LED lighting, switching power and other consumer electronics.

EMC consistently delivers inventive power solutions according to customers' requirement and adds value to end products by synthesizing technological innovation, uncompromised quality, and devotion to customer service.

OUR UNIQUENESS
GREEN YOUR POWER

Core of Power ICs

1. **Green Design**
   Low Ron&Iq for power switch, LDO, converters
2. **Flip Chip**
   High power density applications
3. **System in Package**
   AC/DC PWM IC+HV MOS;SR controller+SR MOS

Core & Power MosFETs Family

1. **S.G. (Split Gate)**
   Low Qg/Ron/Ciss for Vcore MOS,SR MOS
2. **S.J. (Super Junction)**
   Low Ron HV MOS, low VF Schottky
3. **WLCSP (wafer-level-chip-scale-package)**
   Tiny size for limited space
4. **P.B. (Power Block)**
   Excellent power dissipation for H/L dual NMOS

N Channel
- 20V-30V: NB, MB, Battery, Networking and General Load SW
- 60V-150V: Display, Auto, Power Tools and SR(Syn. Rectification)
- 500V-700V: AC-DC SMPS and Telecom

P Channel
- 20V-30V: NB, MB, Air Cleaner, Battery and General Load SW
- 40V-100V: Display and Networking

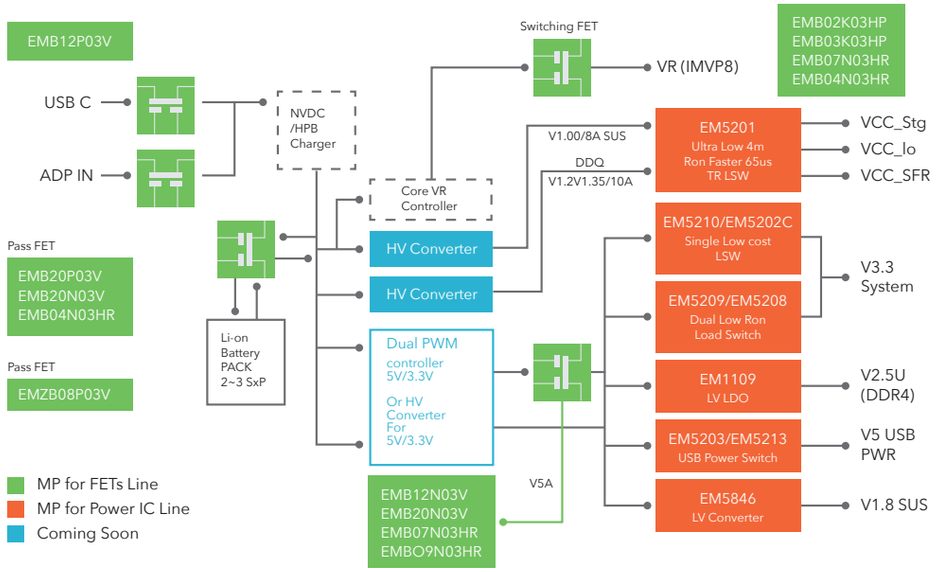
N+P Channel
- 20V-100V: Fan control, Charger and Inverter

Schottky (Specific Low-Vf)
- 50V-120V: AC-DC SMPS and Telecom

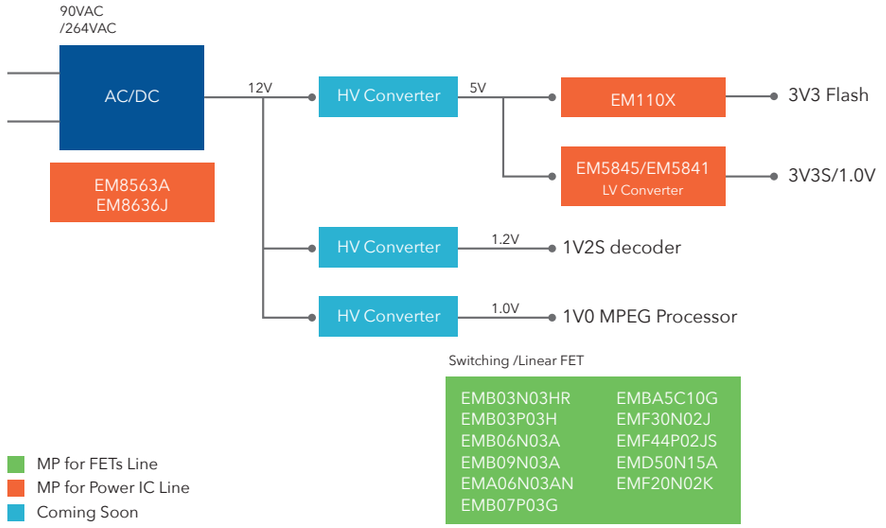
Power ICs Family

LDO	NB, MB, Networking and Display small current application, Io 0.3A ~ 3A
Power Switch	NB, MB, Networking and Display USB or Load sequence control, protection application
DC-DC Buck Controller	NB, MB, Networking and SMPS high efficiency voltage conversion (HV to LV) application
DC-DC Buck Converter	NB, MB and SMPS high efficiency voltage conversion (HV to LV) application
AC-DC Controller	SMPS and Telecom voltage conversion (AC to DC) application

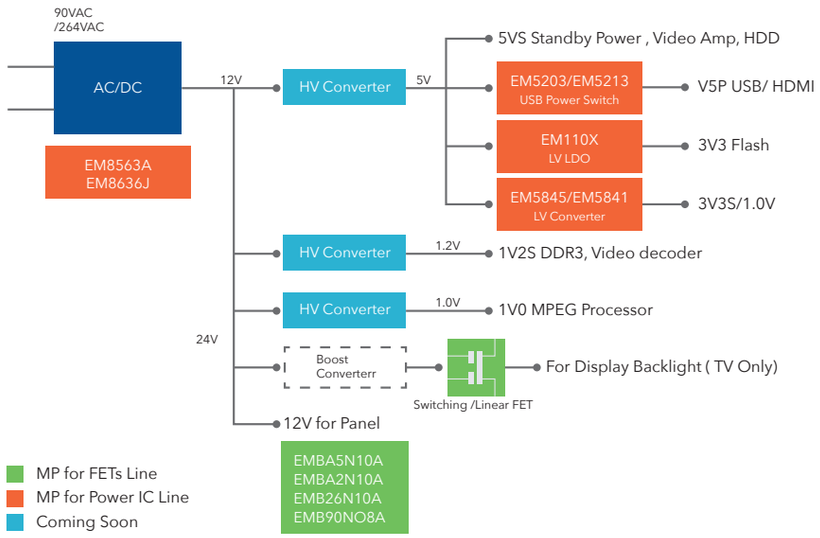
Power Solutions for NB & M/B



Power Solutions for Network



Power Solutions for TV & MNT



Power Solutions for USB-PD