## ▲ UMCC 環隆科技股份有限公司 Universal Microelectronics Co., Ltd. (股票代號: 2413)

## **Investor Conference**



2019年12月04日











# 1 Company Profile



## **About UMEC**

- INITIAL OPERATION :
  - » January 1984

#### • EMPLOYEES :

- » Taiwan 700
- » China 4000
- » Vietnam 1000

#### • CAPITAL :

» US\$43,209,000

- INITIAL PUBLIC OFFERINGS:
  - » October 1998

#### • ANNUAL SALES:

» US\$127,745,746.(2018)

#### • PLANT FLOOR AREA :

- » 32,100 m<sup>2</sup> ---- Taiwan HQ and Factory
- » 72,200 m<sup>2</sup> ---- Shenzhen Factory
- » 10,000 m<sup>2</sup> ---- Longyan Factory
- » 7,200 m<sup>2</sup> ---- Meizhou Factory
- » 13,000 m<sup>2</sup> ---- Hanoi Factory



Headquarter Taichung Taiwan



**Taichung Factory** 



**Shenzhen Factory** 



**Meizhou Factory** 



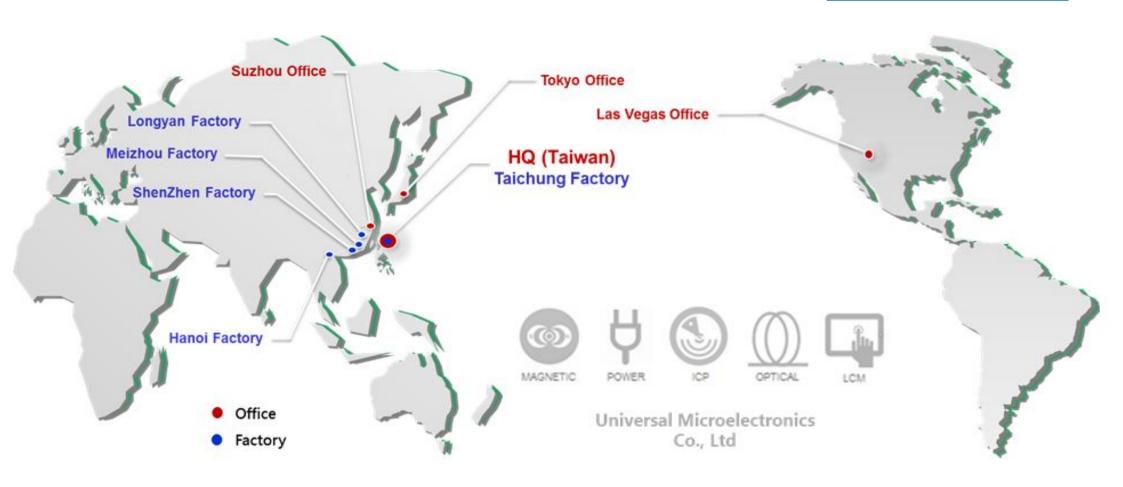
Hanoi Factory



**Longyan Factory** 

## Global Office & Sites

#### Your Solution Provider Your Partner UMEC



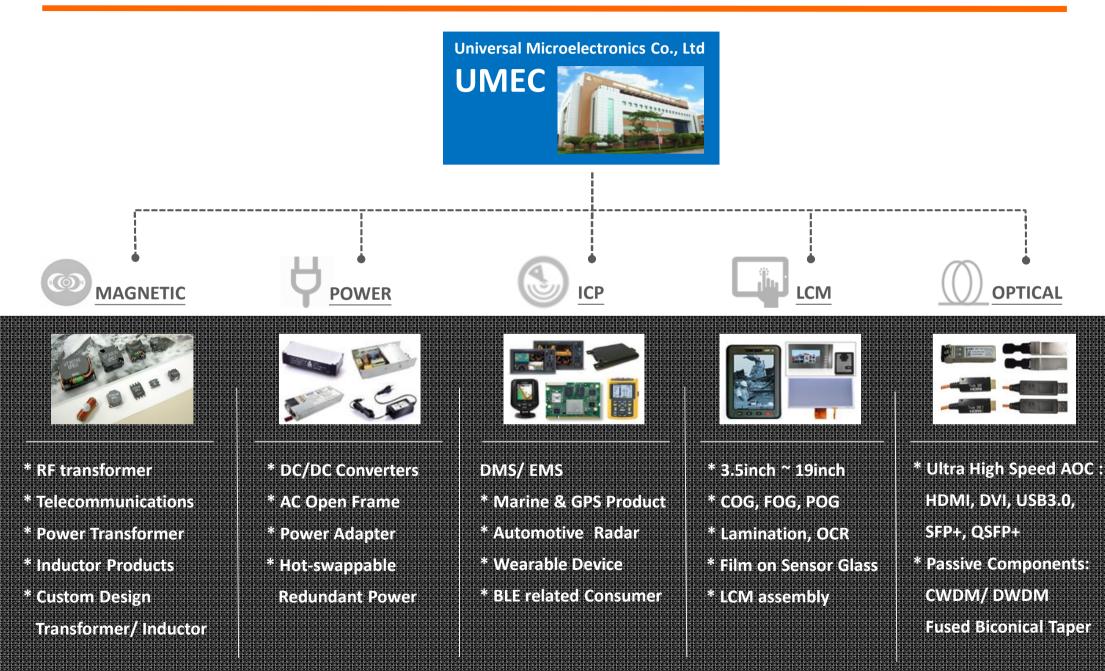




# Product Development



### **Product Segmentation**

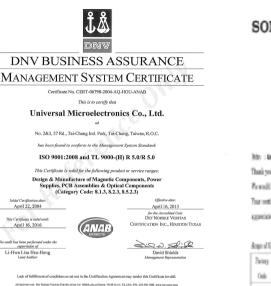




### Certification



- » Taiwan Factory - ISO 9001
  - ISO 14001
  - ISO/TS 16949
  - ISO 13485
  - TL 9000
  - -UL/TUV
  - SONY GP
  - MFi Manufacturing
- » China Factory - ISO 9001
  - ISO 14001
  - ISO/TS 16949
  - -UL/TUV
  - QC 080000
  - SONY SPP
  - OHSAS 18001
  - MFi Manufacturing
- » Vietnam Factory ISO 9001
  - -UL/TUV
  - ISO 14001
  - MFi Manufacturing





#### SONY

5012 | 8 / 36

Notification of Green Partner Certification

#### hts: Université residents (a. 14)

Thank two for your respect on Sony Green Partner Advisions We wall it's triplets you that Gree Partner Definition has been authorized. That performent opportubilities in Bergy environmental quality constraines articulate in highly ACCREATE .

Auge of D	en hrar Ortiksin			
Reney Oelo	MC Sate	70 Natar	Casifotte	Baja Dao
PC1866	Universel Officiend entered in Co., LAL	No Eastern Name	8	20/531

2017 BUILDEN AN	chect	Ĵ&
Discoursed Marr 10 1.17 Fd. 104	selectronics Co., Ltd. Congridd Petr	z
Telchang 405, Tel	20.1 mm	www.analog
At Claysics		
Treat	Densel Michael and Anno Mark	Dex Argumit, 201
LETTER OF CORPO	INNOS I	
Der China.		

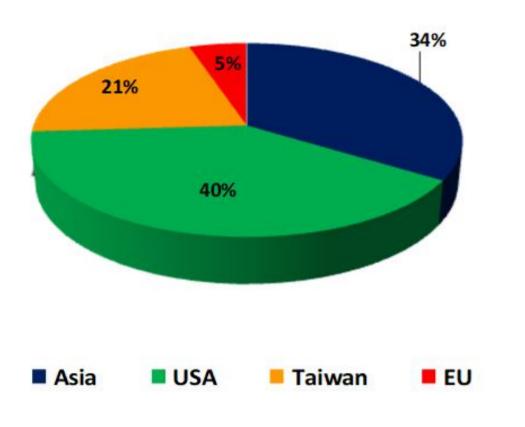
We are pleased to addine you, based up our make at Capternik Macmile trains Co. 244, you have on acted Techanol approval on August 99, 2012 and that you have antidemethy addressed the measurement system requirements, depitted in DIOTS 18940 2000 with the exception of lawing the reptied 12 months performance day for the city.

For the 210/25 10940 2000 "Rober for reliancing WTF recognition", you send have 12 another performance tax to be located as 150/75 169-9 2000 certificate. Therefore, for Universal decodectopics Co. Ltd., we are triangly on the later of confirmance which repire on Argent W. 1013. Choix you have the experient 12 member of performance tion, we will re-emitterix. A Special Anderwill be performed and if the results are denored satisfactory, as 200 T1 16140 2001 comilione will be more in the time

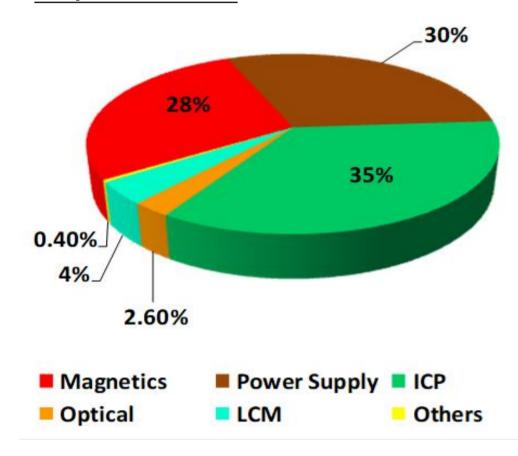
## **Mee 2018** Sales Revenue Update

#### 2018 ANNUAL SALES: US\$127,745,746.

• By Territory



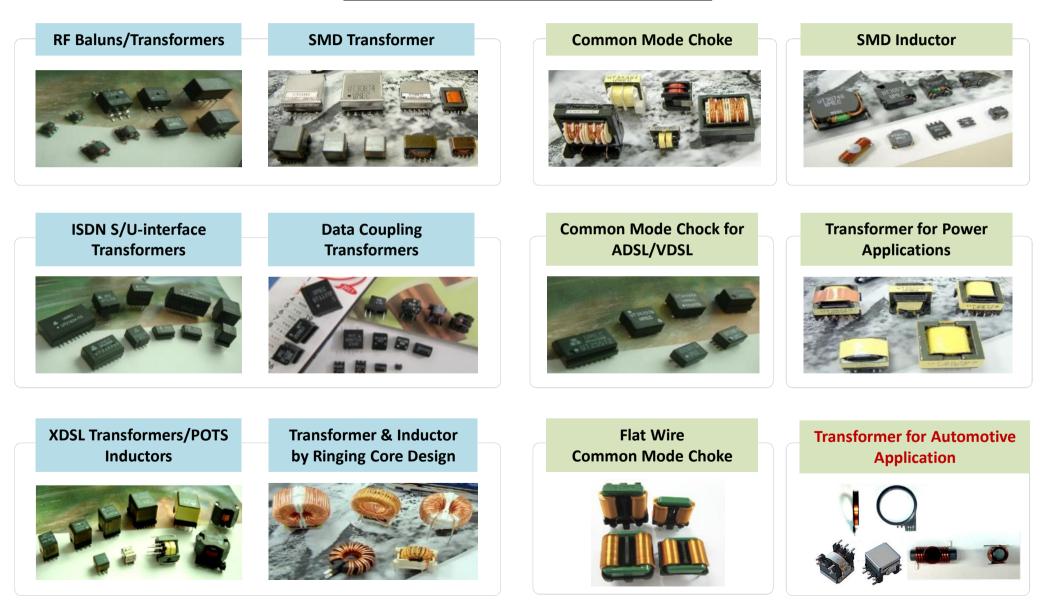
#### • By Product Line





### **Magnetic Component Product**

#### • Total Capacity: 20KKpcs/ month



### **Umee Magnetic Component Product**

IC Manufacturer	Technical	
ADI	HomePlug/VDSL2	
Broadcom	ADSL/ADSL2+/VDSL2/ADSL2+/ VDSL3/G.FAST <mark>/G.mgfast</mark> HomePlug/VDSL/VDSL2	
Broadcom(Gigle)	HomePlug	
Ikanos(Globespan)	ADSL/ADSL2+/G.SHDSL/VDSL	
Ikanos(Globespan,Conexant)	ADSL2+/G.SHDSL/VDSL/VDSL2	
Lantiq	Power	
Intel ( Lantiq, Infineon)	ADSL/ADSL2+/MDSL/SDSL /VDSL/VDSL2/G.FAST <mark>/G.mgfast</mark>	
Level One	DDS	
Marvell (DS2)	G.hn/HomePlug	
MicroSemi (Zarlink, Legerity)	ADSL/ADSL2+/POTS	
Mstar, Qualcomm(Atheros,Intellon), Silicon Labs	HomePlug	
Realtek, Metanoia, Sckipio	G.FAST/VDSL2	
Sigma Designs (CopperGate)	G.hn/HomePlug/HPNA3	
Silicon Labs	VoIP(Power)	
Texas Instruments, STM	Power	
Teridian	Analog	
Triductor, INTEL(Lantiq), Metanoia	VDSL2	

- Total Capacity : 20kkpcs per month.
- Telecom Transformers/Inductors : 9kkpcs per month (Ferrite EE5, EP7, EP10, EPX10, EP13, EPC13, RM4, RM5, RM6, TKH7---)
- LAN, ISDN, T1/E1, T3/E3 Transformers/Inductors : 3kkpcs/ per month

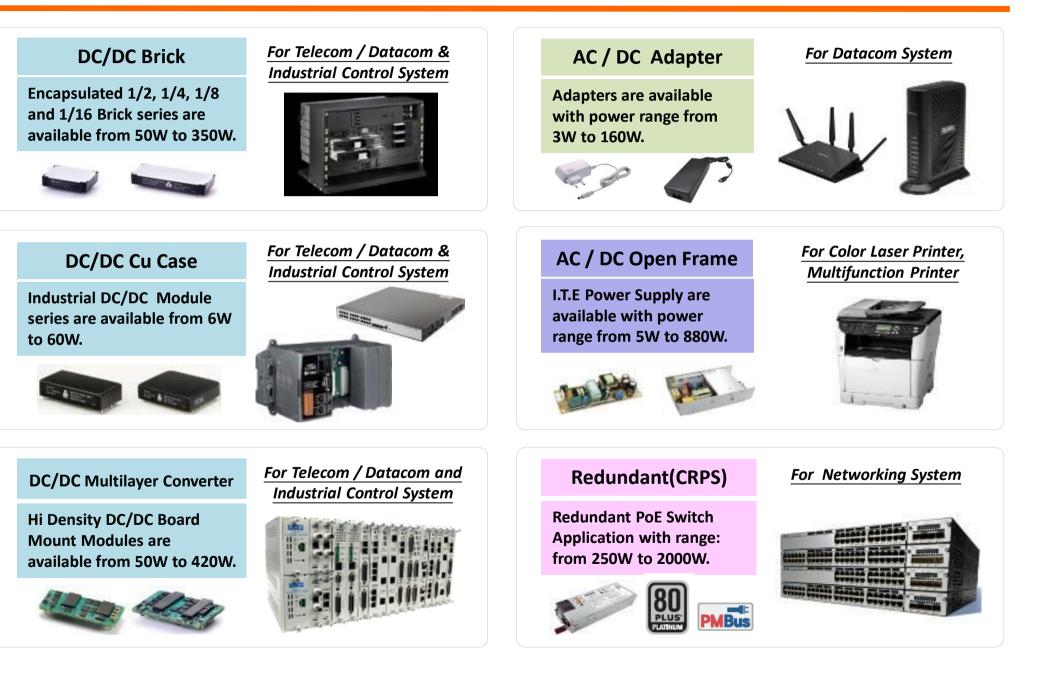
(Ferrite Ring core T2.5~T10 ----)

• Power Transformers/Inductors : 8kkpcs per month (Ferrite EF16~EF32/11, EE40,-----)

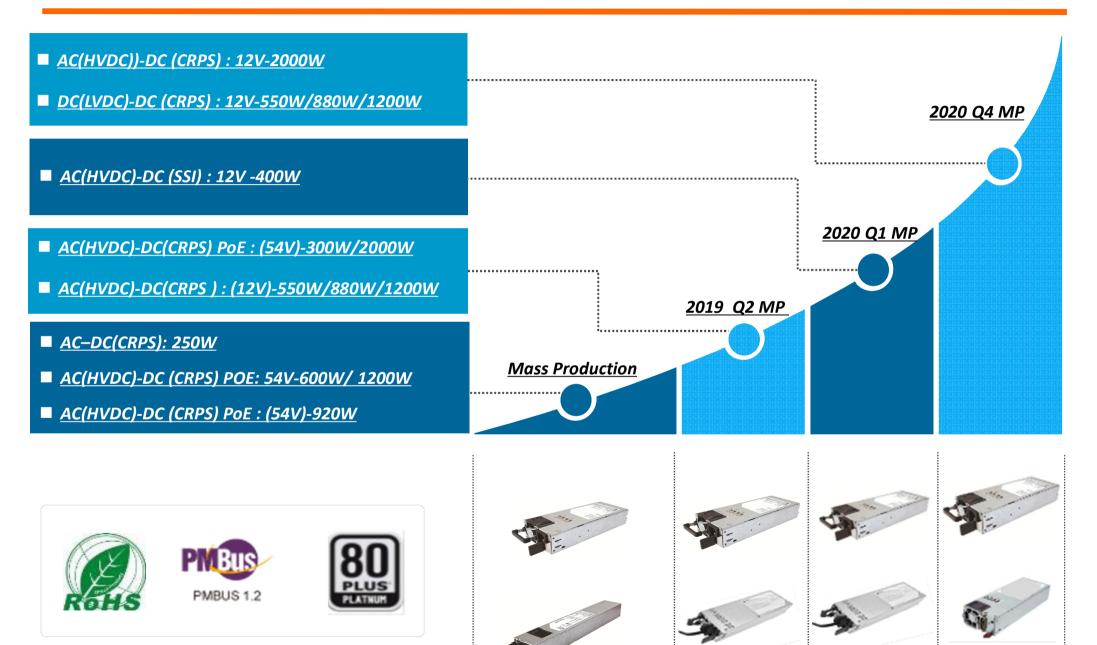




### **Power Supply Product**



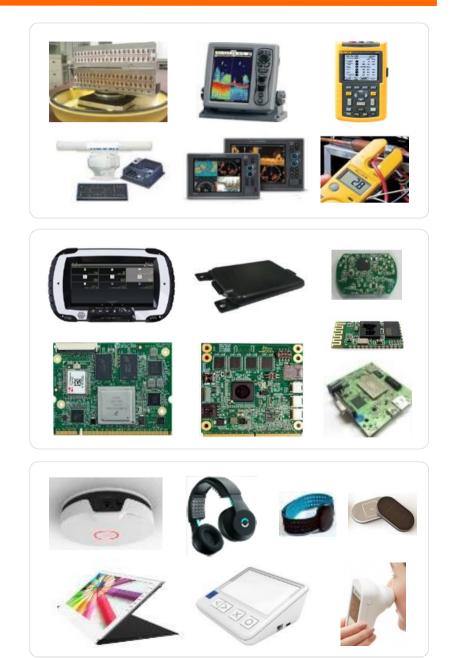
### Redundant Power Supply Products



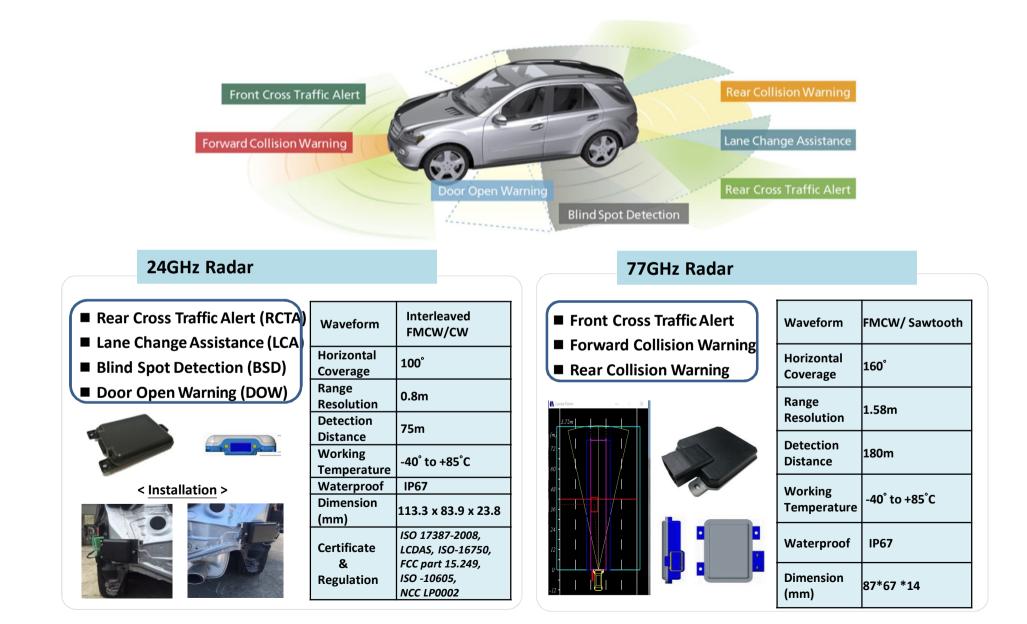
## UMCC Information & Communication Product

### DMS/ EMS

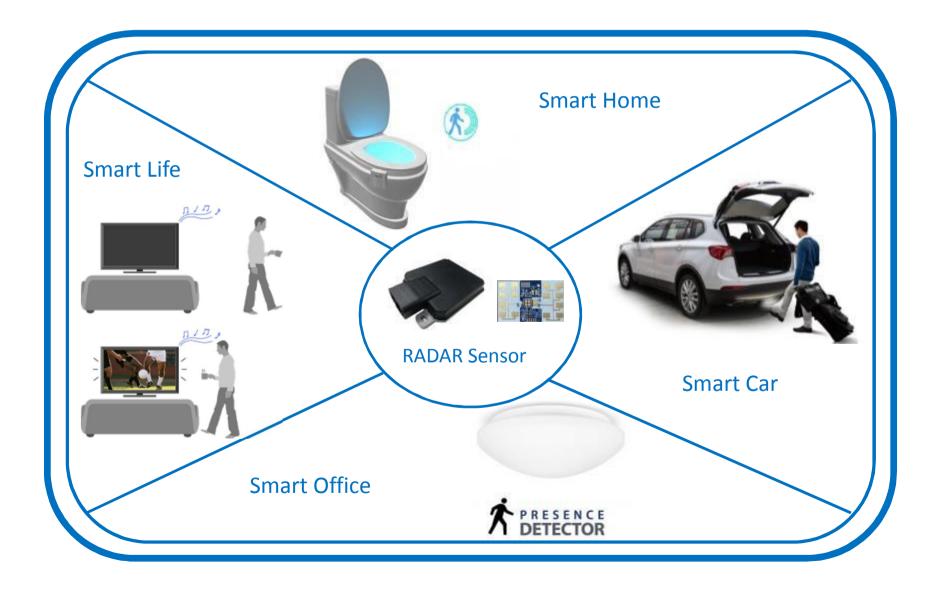
- Marine Products
  - GPS System
  - Radar
  - Fish Finder, Transducer
  - Marine Chart Plotter
  - Trolling Motor Control System
  - Solid State Marine Radar
- Automotive Products
  - Automotive FMCW Radar
  - Car Multimedia System
  - Power Lift Gate module
- Consumer Products
  - Wearable & IOT Devices
  - Controlling Center Platform & System in ZigBee/ Wi-Fi/BT
- Industrial Android Rugged Tablet Solution



## **UMCC** Automotive Radar Solution



### **UMCC** Non-Vehicle Radar Sensor



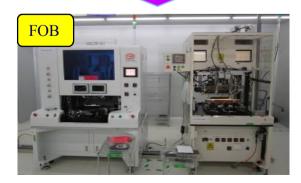


### **LCM Process & Products**

Bonding Process (2.8"-15.6") Capacity : 250 (K/M)







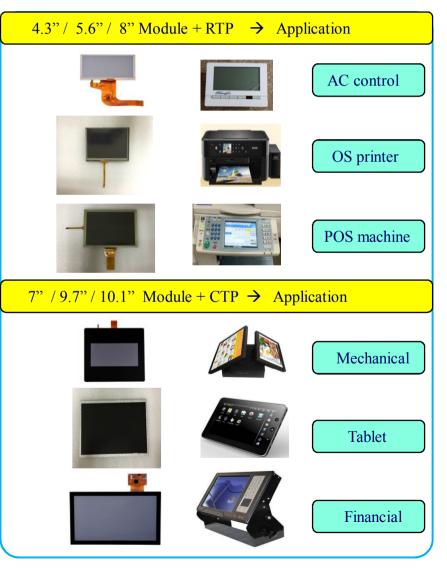


CTP Process (3"-12")

Capacity : 150 (K/M)

**OCR** 

Main Products (4.3"-10.1") Capacity : 50 (K/M)





### **Optical Communication**

#### Ultra High Speed AOC :

• HDMI, DVI, USB3.0, SFP+, QSFP+

#### Component:

- CWDM/DWDM
- Fused Biconical Taper (FBT)

#### **Target Application:**

- Medical Imaging Equipment
- Cloud Computing
- Telecommunications
- Conference Room Video System
- Factory Automation Systems
- LED signboards and Kiosk.











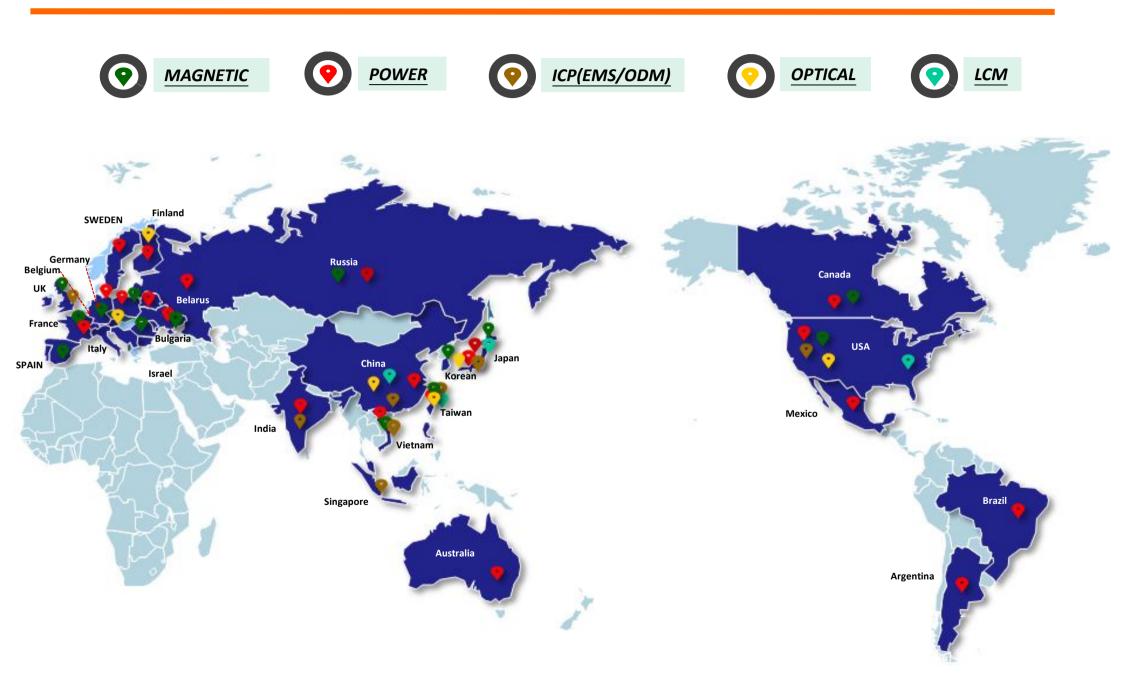








### Marketing







# Operational Prospect

## **Umec** Operational Prospect

- ADSL market has been moving to VDSL.
- For G.fast, UMEC already complete 3<sup>rd</sup> generation G.mgfast product develop, future is bright.
- Continue develop 4C related auto industry magnetic components, especially in automobile communication, lighting and power categories.
- Complete and Received AEC-Q200, IATF16949 certification.

## **Umec** Operational Prospect

- UMEC continue to focus on D/D Converter for Military grade and railway market. Also develop for Network, medical equipment and cloud computing and data center power supply needs,
- Due to heavy data trafficking demand of 5G Telcom, IOT, Big data, and Cloud computing. The needs for the tolerance of high frequency and high temperature power supply is in great demand.
- Green/Reusable energy demand for energy saving power supply, create big market needs for us.

## **Umec** Operational Prospect

- 77GHz short distance radar and 79G wideband radar are all in master production. 77GHz mid-long range radar is in customer sample stage, including Japanese tier one customer.
- Non car use 24GHz short range radar has successfully penetrate into different market place and are currently in customer sample stage. Usage like smart parking, toilet door bell, drainage alarm system, etc. estimate MP in end of 2019.
- China will enforce AEB regulation JT&T 1242 for commercial vehicles. Currently are working with China car maker to replace current used US radar system to reduce the cost.



# **Thanks for Your Attention!**