



# Company Profile

[www.way-on.com](http://www.way-on.com)



Let's make electronics Safer

# Overview Of Enterprises

Since

1996



## Main Business

Circuit Protection & Power Semiconductors & Mixed Signal IC



## Total Employees

More than 500



## Registered Capital

7.5 Million USD



## Competitive Force

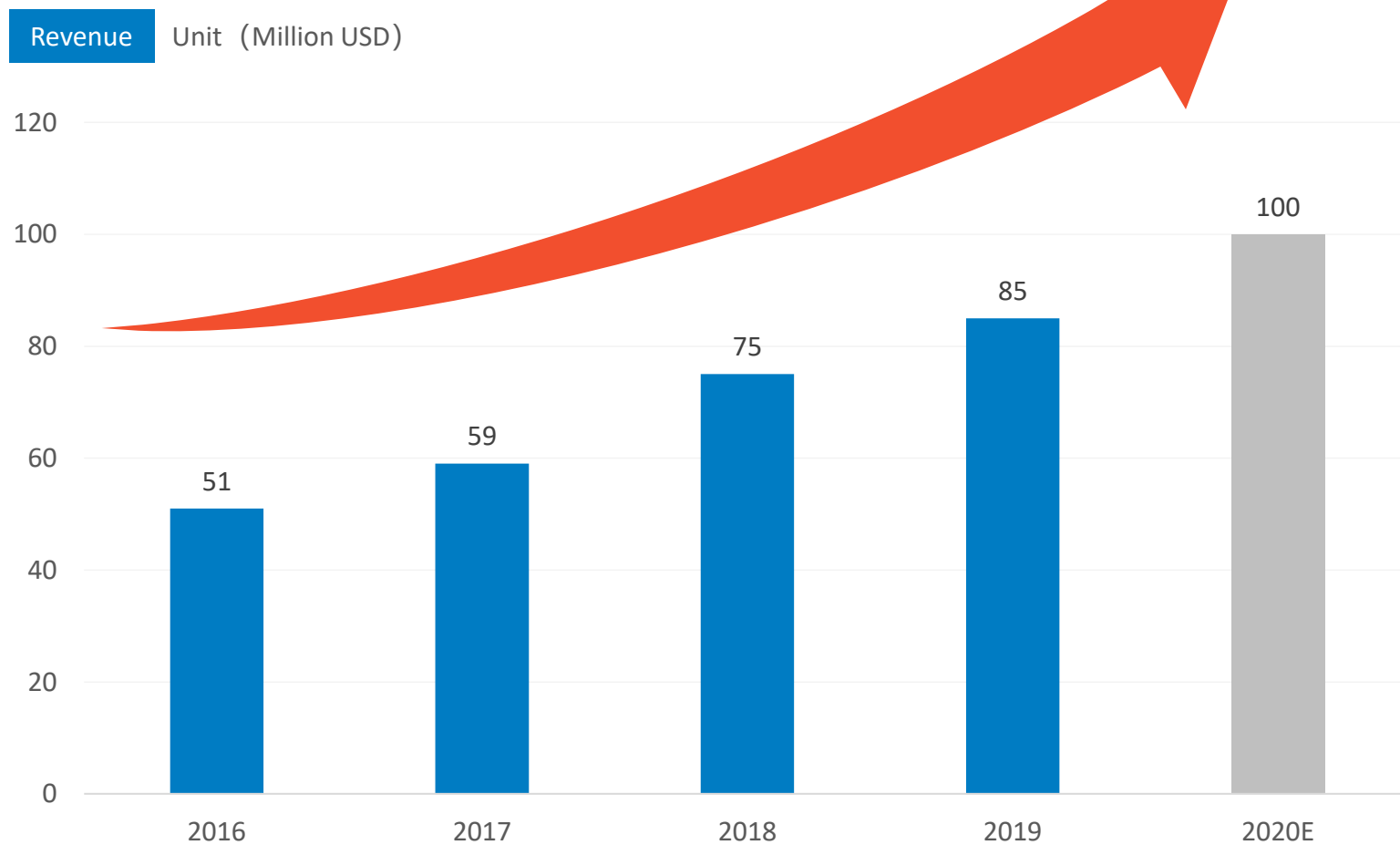
Continuous technological innovation ability  
Professional and fast service mechanism



## R&D Team

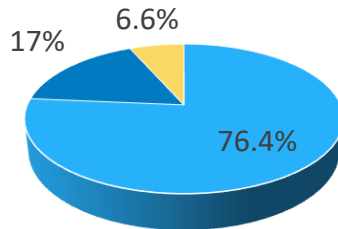
Total 200+, PHD 6

# Business Revenue



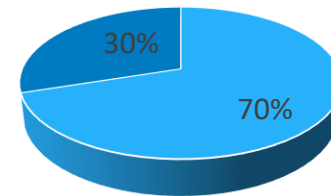
# Revenue structure

## By Products



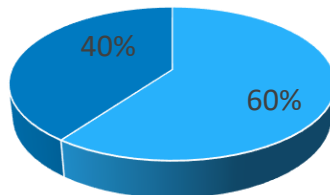
- Circuit Protection
- Power Semiconductors
- Mixed Signal IC

## By Business Model



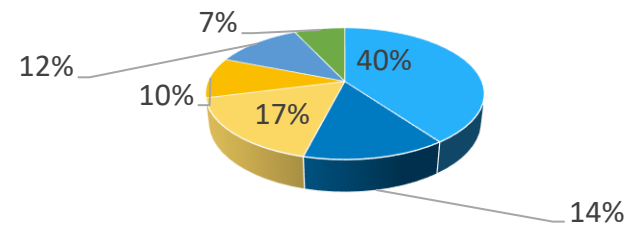
- Distributors
- End Customers

## By Area



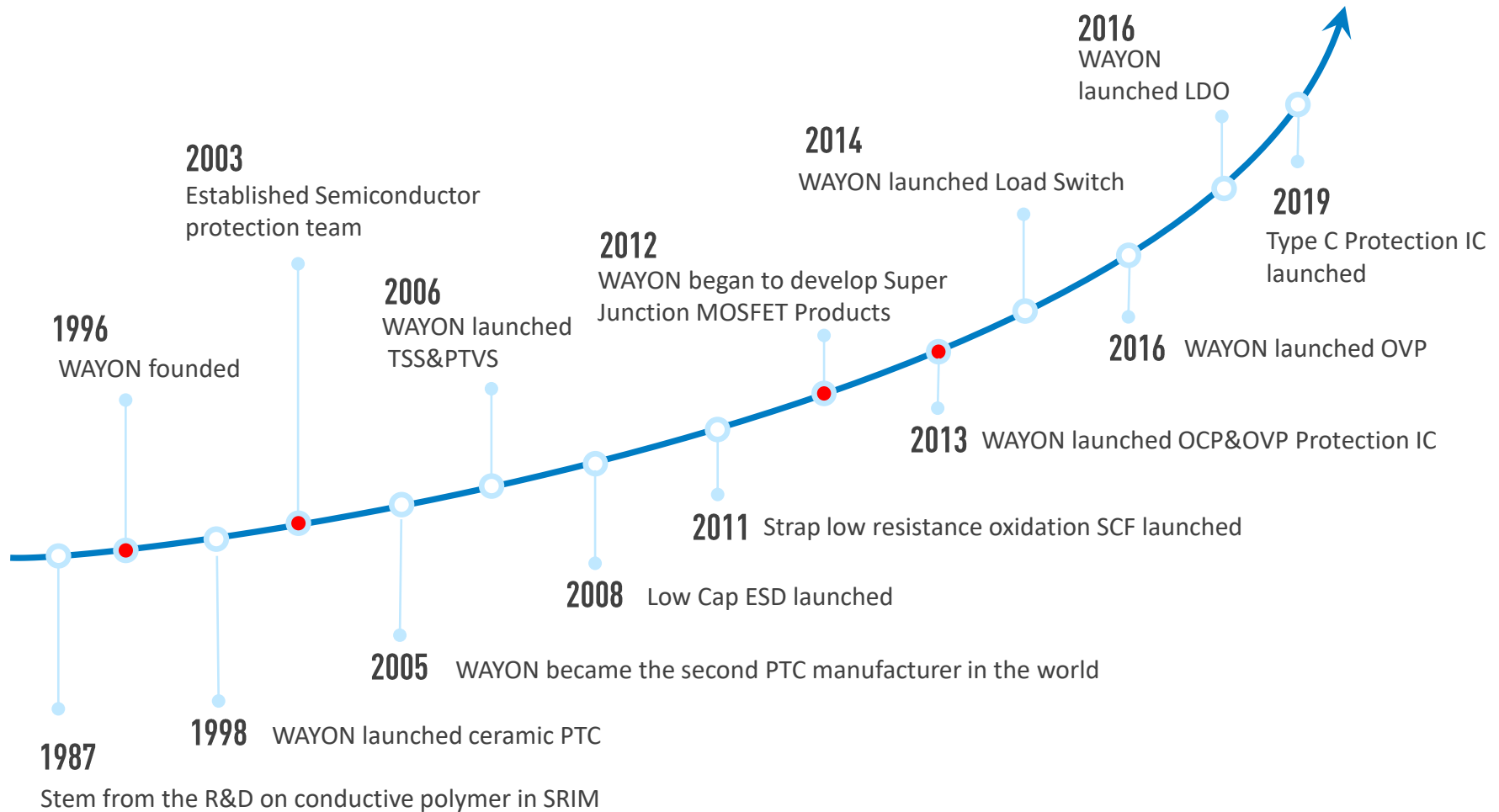
- China Mainland&HK&Taiwan
- Overseas

## By Industry



- Consumer
- Display
- Network
- Security
- Power
- Industrial&Automotive

# Company History



# Development Milestone

1992



PPTC applied in Telecom application in Bell and Huawei ★

2001



Approved supplier to BYD

2004



Approved supplier to SGS and Sanyo

2005



Approved supplier to Samsung and LG ★

2013



Approved main supplier to Hikvision/Dahua ★

2011



Approved supplier to Apple on iPhone series ★

2010



Approved supplier to Sony, Panasonic

2009



Approved supplier to Motorola

2015



Approved supplier to Igarashi

2017



Wayon SJ-MOSFET was applied to Samsung 5G fast charger ★

2018



Approved main supplier to Foxconn AVL/ZTE 5G base station ★

2019



Approved supplier to BOE/CSOT ★

# Industry Status

## Protection Components

- China most complete line largest scale **Protection components** Manufacturer
- **PPTC** ( Resettable Fuse) Market Share Top 3 Globally
- Ultra low clamping voltage **ESD&EOS** with international Leading Technology
- **ESD&EMI** Filter Assembly components Exclusive Source in China
- 5G Base Station - **High Power Lighting Protection TVS** international Leading Technology

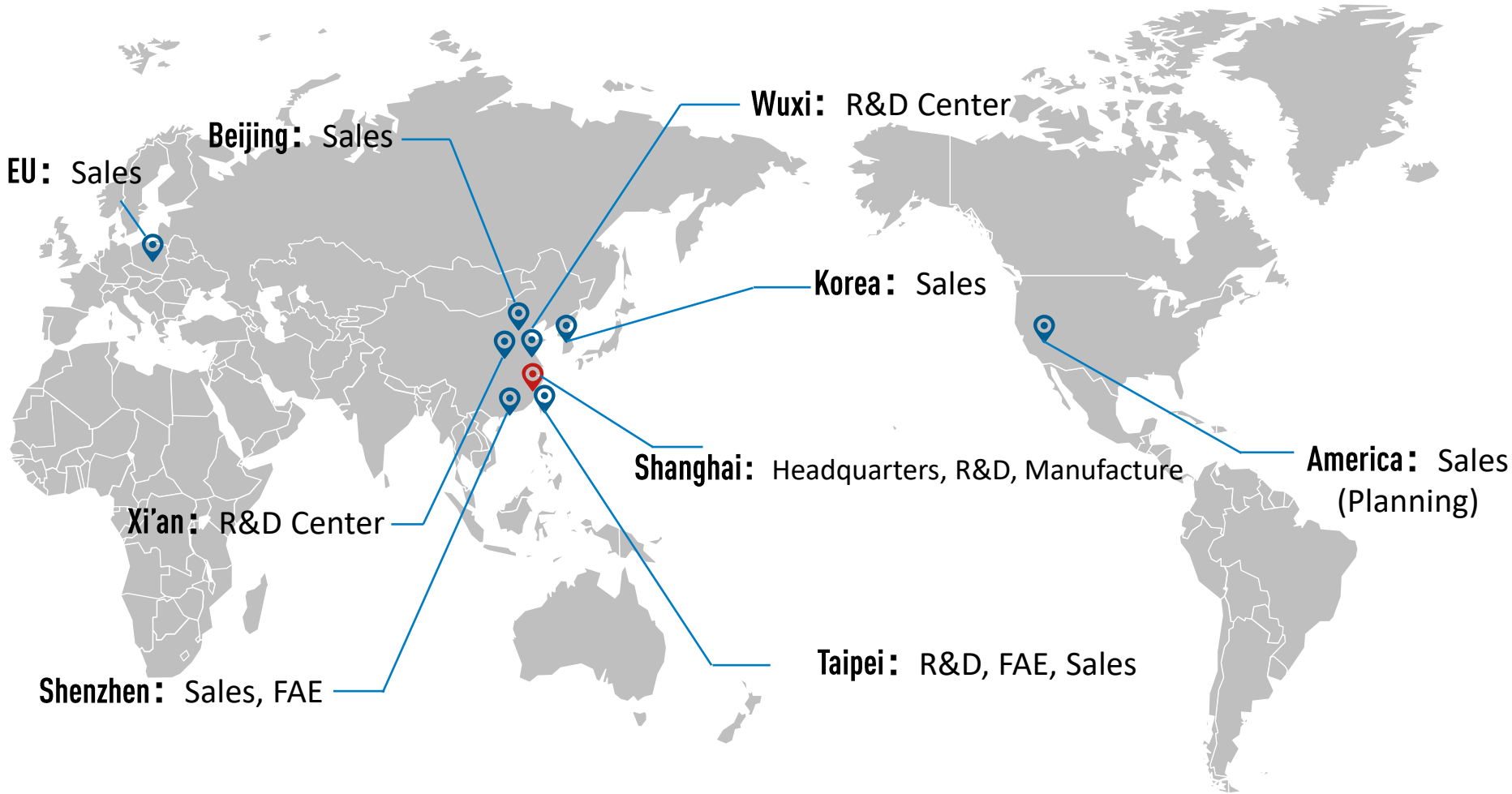
## Power Semiconductor Devices

- China First Company have **Deep Trench & Multi-epi** SJ MOSFET Technology
- China First Launched 1000V+ **SJ MOSFET**
- China First **SJ MOSFET** Supplier for Samsung the First 5G Cellphone Charger
- China First MP Bump Technology Ultra Low  $R_{DS(ON)}$  DFN2x2 30V N-Channel **MOSFET**
- Full  $BV_{DSS}$  Range from 30V to 150V Ultra Low  $R_{DS(ON)}$  **SGT MOSFET** With DFN3x3 & DFN5x6 For SMPS

## Mixed Signal IC

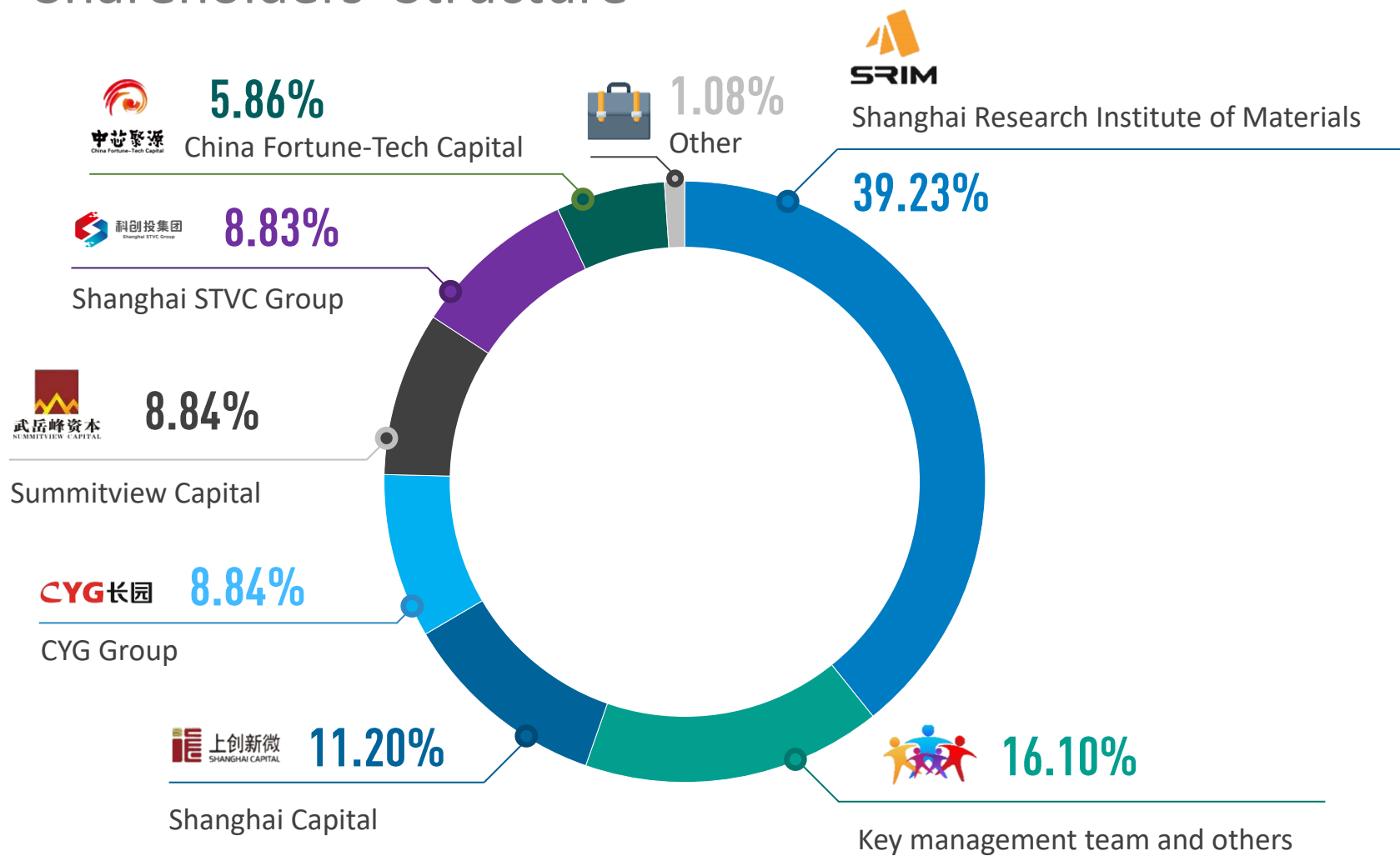
- China First Launched **Type C** High Voltage Full **Protection IC**
- China First Launched under 0.5uA **Ultra Low Iq LDO**

# Company Distribution

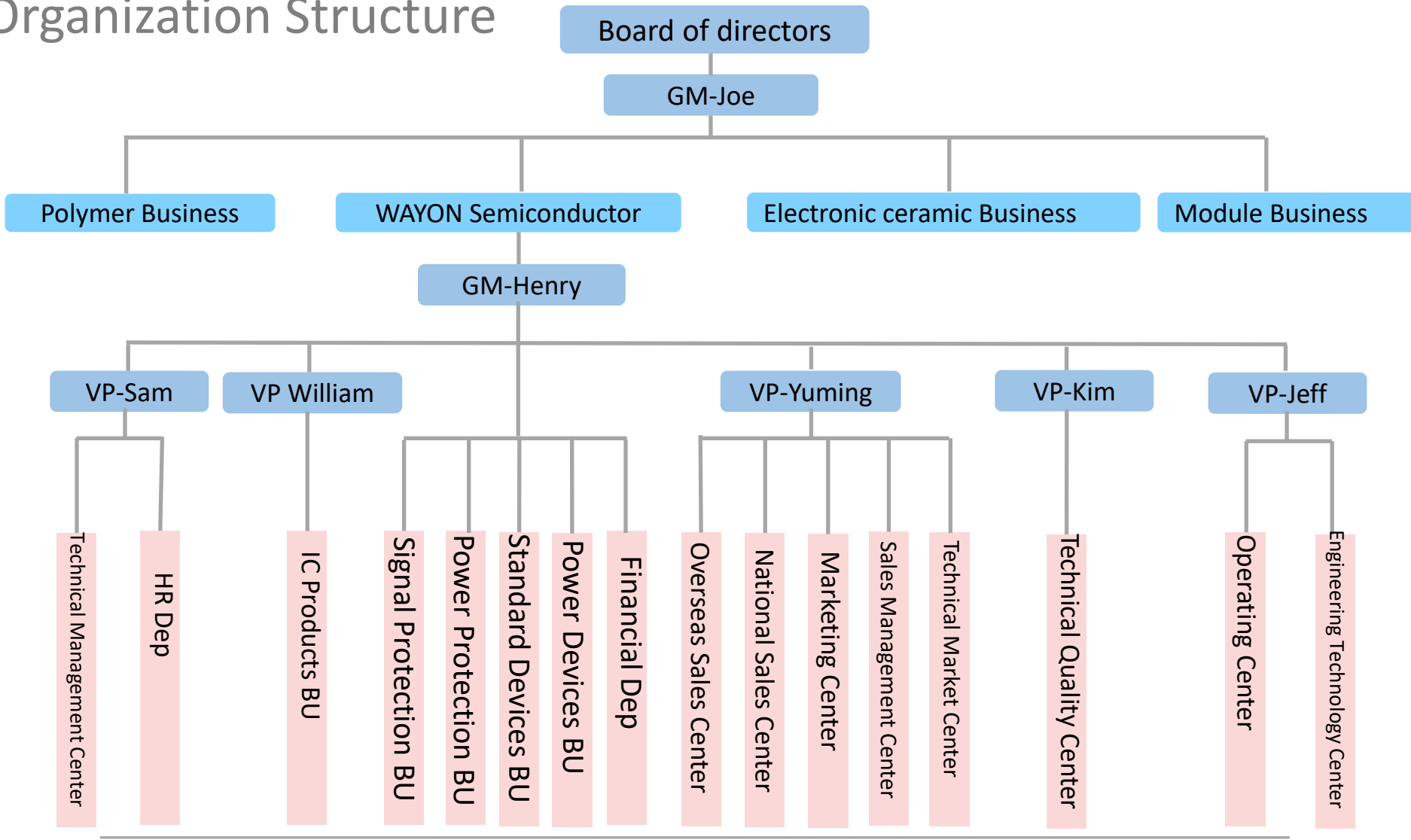




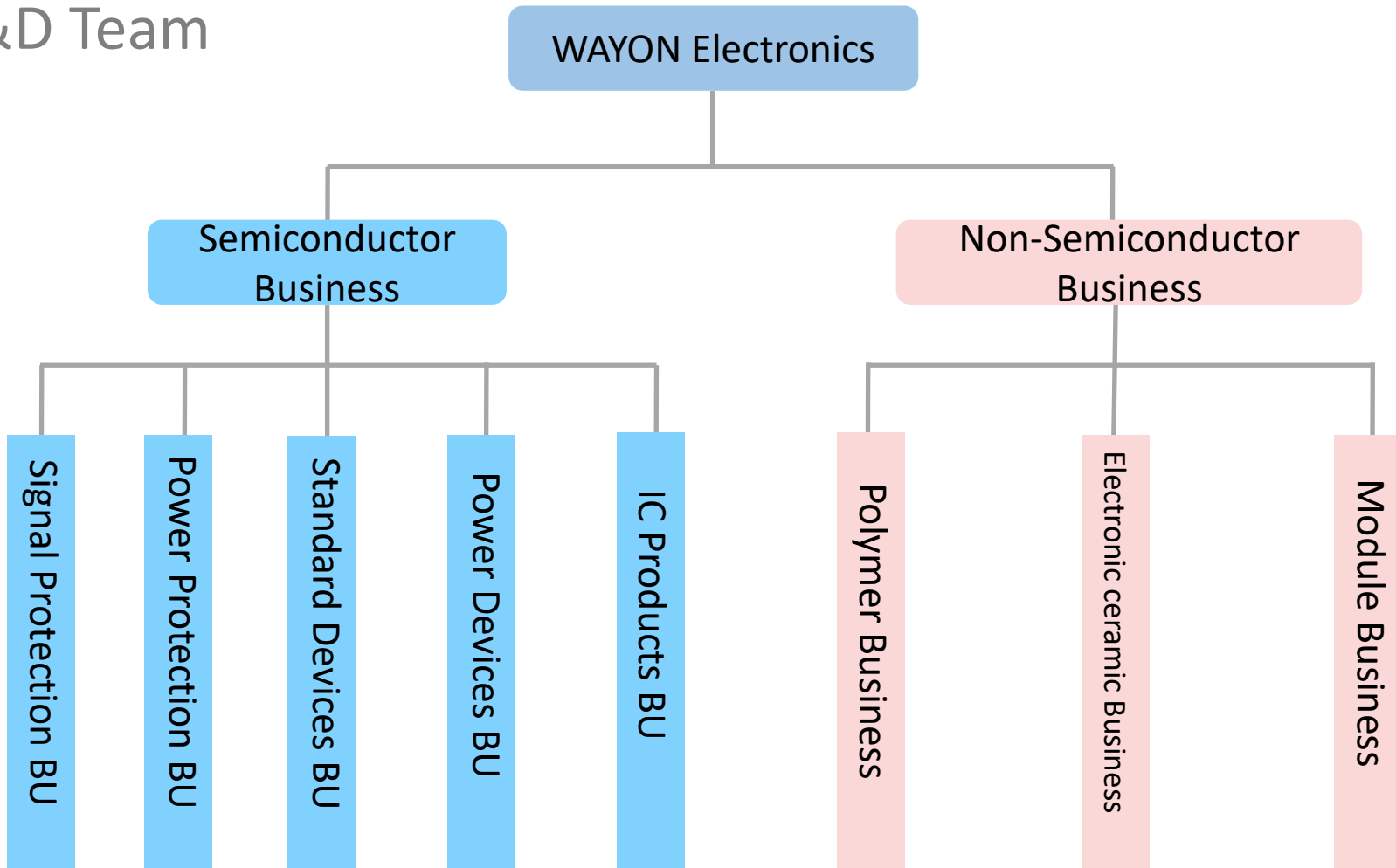
# Shareholders Structure



# Organization Structure



# R&D Team



● **R&D Total: 200+, PHD 6, Master 60+;**

# On-going technological innovation capability

- Wayon attaches great importance to technological innovation and provides system solutions for customers
- Wayon attached great importance to application, lab investment, and provides professional service for customers



## Intellectual Property

More than 300 patents have been applied



## R&D Center

Municipal enterprise technology center



## Lab Capability

UL CDTP and TUV TMPL lab



## Honor

More than 30 national and municipal awards

# Quality Management System

## System Cert

ISO9001 | ISO14001 | IATF16949

## Hazardous Substance

SONY GP Cert.

## Product Cert

UL | TUV

## LAB Qualification

UL—CDTP Lab. | TUV—TMPL Lab.



# Laboratory Center



Devices Test Lab



Reliability Test Center



Application Test Lab

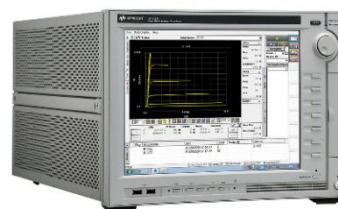


Failure Analysis Center

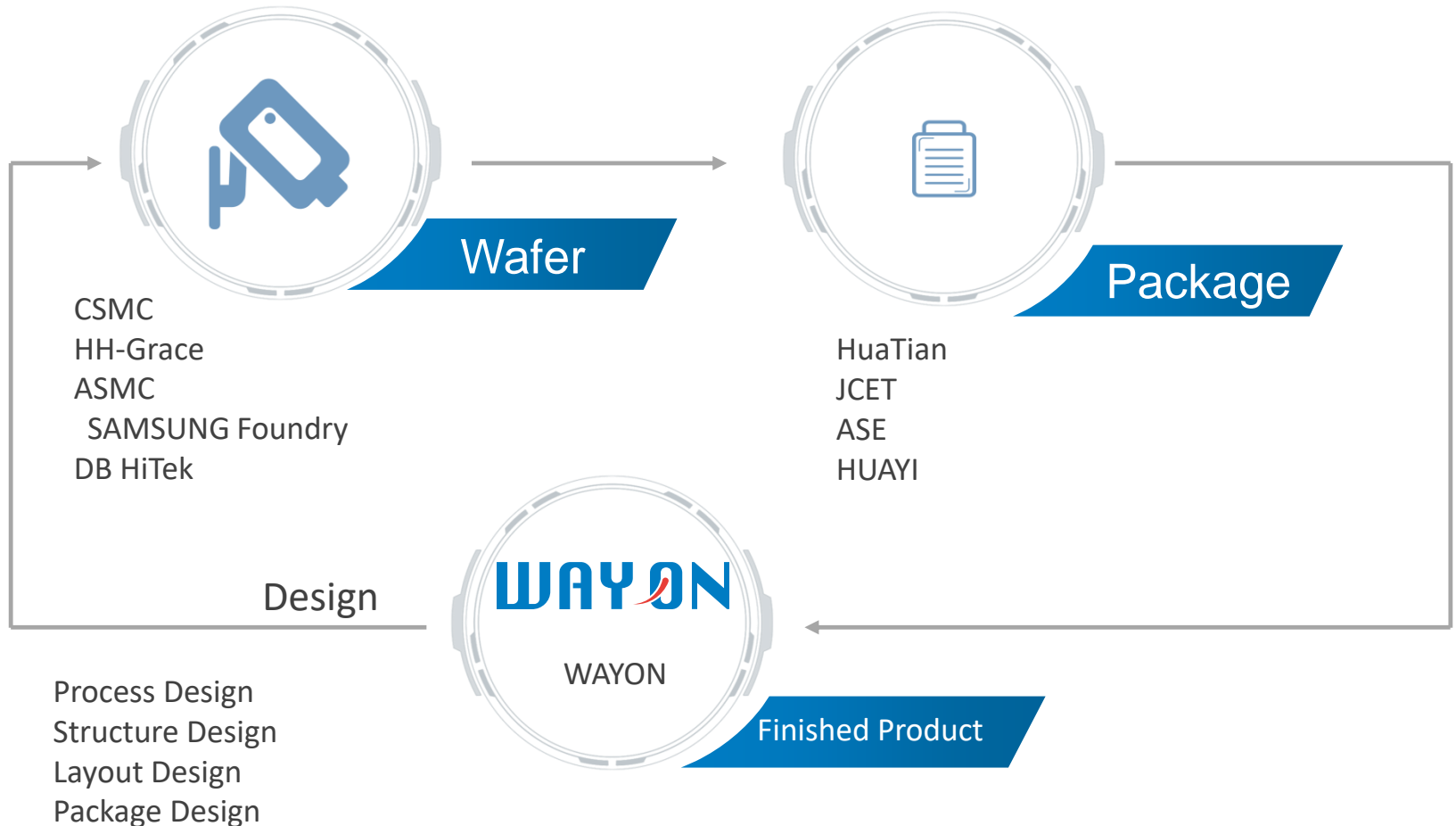
Over 1200 m<sup>2</sup> Lab. in Wayon Shanghai

Professional Lab facility in:

- WAYON Xi'an
- WAYON Shenzhen
- WAYON Taiwan



# Supply Chain



# Main Products

## Circuit Protection:

- ESD & EOS
- PTVS
- TSS
- PTC
- FUSE
- SCF

## Power Semiconductors:

- SJ MOSFET
- Transistor
- MV/LV MOSFET
- Diodes

## Mixed Signal IC:

- OCP
- OTP
- LDO
- PMIC
- OVP
- Type C Protection
- E-Fuse
- Transceiver





# Circuit Protection

## Series:

- SMD PPTC
- Through hole PPTC
- Auto PPTC
- Ceramic PTC
- Battery strap PPTC

## Application:

- Mobile Phone battery
- Notebook
- Communication equip
- Auto motors

## Series:

- 0603series
- 1206series
- 2410series
- 1140series

## Application:

- Cell phone battery
- Printer, Disc drive
- LCD Monitor
- Power supply

## Series:

- 2718series
- 4030series
- 5432series
- 9550series

## Application:

- Tablet computer, notebook
- Vacuum cleaner, sweeper,
- E-bicycles, E-motorcycles
- E-tools, energy storage



PTC

FUSE

SCF

# Circuit Protection

## Features :

- VRWM: 2.1V-36V
- 2 Channel to 14 Channel
- Minimum Cap 0.15pF
- Minimum Package Size 01005

## Advantage

- ★ DFN0603 Bump Series
- ★ DFN1006/DFN1610/DFN2020  
EOS Protection
- ★ WECM Series ESD & EMI
- ★ Deep Snapback low cap series

### ESD & EOS



CSP0402



DFN0603



DFN1006



DFN1610



DFN1616



DFN2020

### ESD & EOS



SOD923



SOD523



SOD323



SOT23



SOT23-6



SOP8

### ESD & EOS



DFN1610



DFN2010



DFN2510



DFN4210



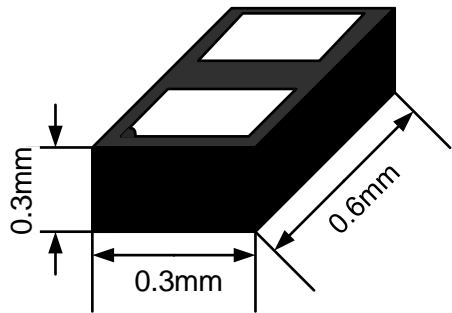
DFN3810



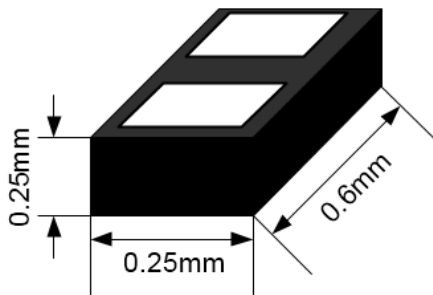
DFN5515

ESD & EOS

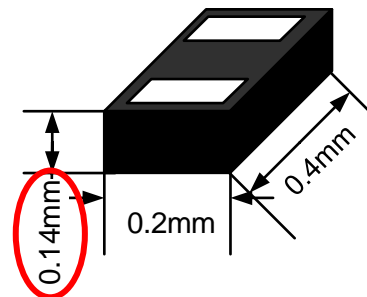
# ESD & EOS Technology



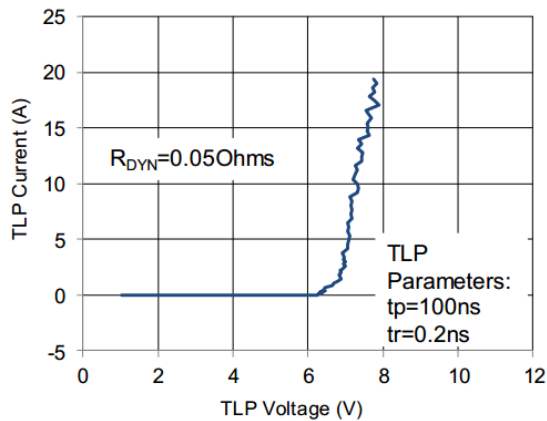
DFN0603



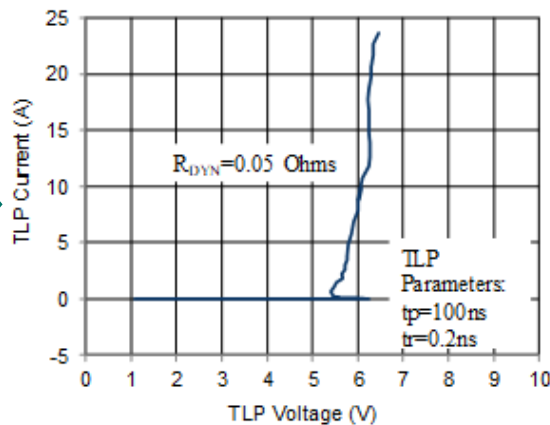
CSP0603



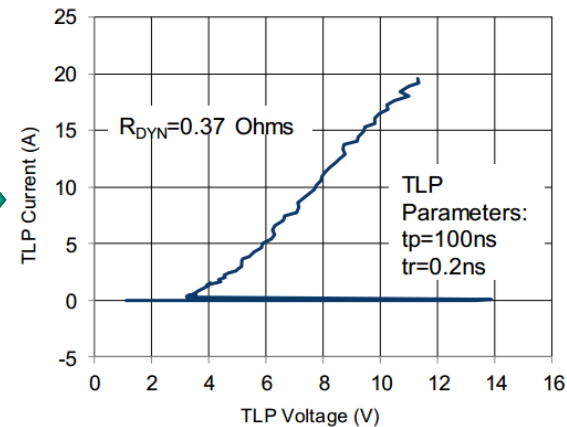
CSP0402



No Snapback



Shallow Snapback

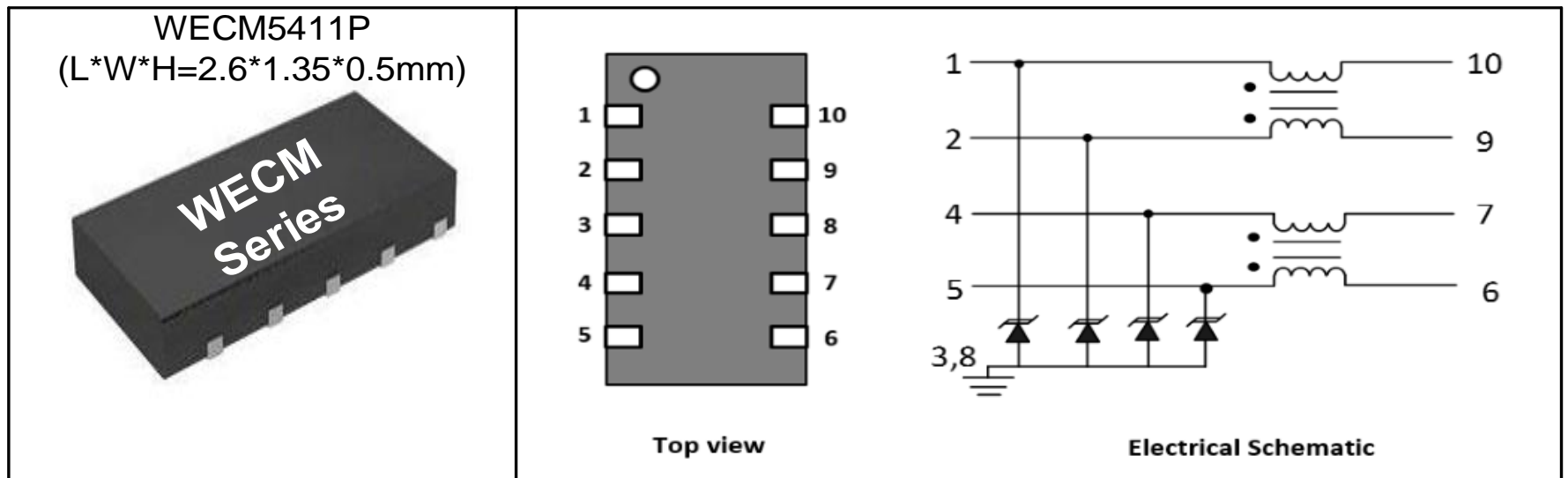


Deep Snapback

## ESD & EMI Technology

WECM Series :

- Small size package , 4IO DFN2.6\*1.35\*0.5 mm;
- Wafer level common mode chock;



# Circuit Protection

## Features :

- VRWM: 3.3V-560V
- Ppp: 200W-15000W
- Maximum Ipp 20KA
- AECQ Qualified

## Advantage

- ★ SOD123 7V-24V EOS Protection
- ★ SMC-3 Package 2 Channel PTVS
- ★ 5G Small Size High Current PTVS
- ★ Small Size DFN Series

## PTVS&TSS



SDO123



DFN3333



SOT-23-6



SMB-3



SMC-3



TPS



DO-218AB

## Features :

- VRWM: 6V-800V
- Ipp: 50-200A(10/1000us)
- Minimum Cap 7pF for Single
- Low cap TSS array

## Advantage

- ★ Low cap Series for high speed
- ★ 3KA TSS for 5G application
- ★ Lao cap TSS Array for xDSL application
- ★ Small Size DFN Series

PTVS

TSS

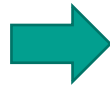
## 5G High Power PTVS

5G Application Small Size High Power PTVS :

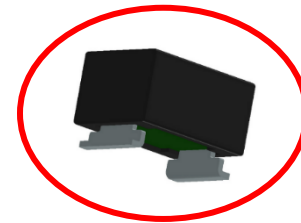
- SMD type small size package , 10\*8.8\*8.8mm;
- The first 5G base station application PTVS;



24.5\*14\*20 ( 14 ) mm  
Ipp: 3KA



10\*9\*14 mm  
Ipp: 3KA



10\*8.8\*8.8 mm  
Ipp: 3.5KA

# Power Semiconductor

## Features

- 12V-200V  $V_{BR(DSS)}$
- N, P or Dual N, Dual P
- $R_{DS(ON)}$  2.5m $\Omega$ -100m $\Omega$
- Trench & SGT MOSFET technology

## Advantage

- ★ DFN1006-3L Small Signal
- ★ Bump 30V High power density trench MOSFET
- ★ 60V-150V Gen 2 SGT MOSFET

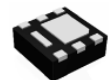
### LV/MV MOS



DFN1006



SOT723



DFN2020



SOP8



PDFN3\*3



PDFN5\*6

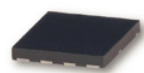
### SJ MOS



SOT223



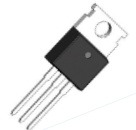
TO252



PDFN8\*8



TO220F-SL



TO220-ISO



WMG

## Features

- 500V-1200V Super Junction MOSFET
- $R_{DS(ON)}$  0.04 $\Omega$ -7 $\Omega$
- Deep Trench & Multi-EPI SJ MOSFET technology

## Advantage

- ★ 800V, 900V Series
- ★ Small Size SOT223, PDFN8\*8 Series
- ★ C4 Series SJ MOSFET

MV/LV MOSFET

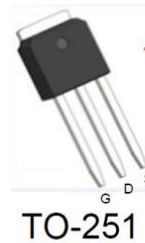
SJ MOSFET

## SJ MOSFET Application

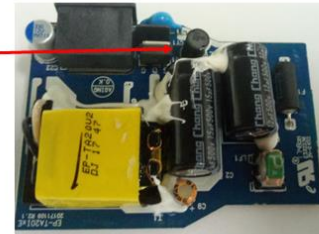
- WAYON SJ MOSFET & LV MOSFET applied to the World's first 5G smartphone charger
- WAYON is the only China supplier to SAMSUNG
- Applied Part NO. WMP09N90C2 (900V, TO251), WMO14N70C2(700V, TO252), WMA0040N



25W



TO-251



15W





# Diodes & Transistor

## Schottky

- 10V-60V  $V_{BR(DSS)}$  SBD
- IF: 0.1A-5A
- SOD&SMA/B/C Series

## Zener Diodes

- 2% & 5% Precision Zener
- 50uA/5mA/20mA  $I_t$  Characteristic current
- SOD& SMA/B/C Series

## Switching Diodes

- 7V-200V Switching Diodes
- SOT&SOD Series

## Transistor

- 20V-150V
- SOT23&SOT223 Series

## Features :

- ★ TMBS Technology
- ★ Minimum Package DFN0603
- ★ Low power dissipation



# Analog IC

## Features :

- 75mA-2A Fixed current
- 75mA-2A Adjust current

## Application:

- Laptop/Desktop Computer
- Set Top Box
- Printer
- USB Hard Driver, Keyboard

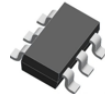
### 限流开关/OVP



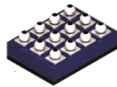
SOT23



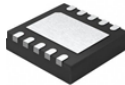
SOT23-5



SOT23-6



CSP12



DFN3\*3

## Features :

- WP388x Series
- WP3981 Series
- WP308x Series
- WP318x Series

## Application:

- Smart Phone, Tablet
- TWS
- E-Cigarette
- Portable Entertainment Equipment

Load Switch

OVP

# Analog IC

## Features :

- Type C Interface All in one Protection
- 4 Channel OVP, 8 Channel System Level ESD Protection
- OTP Protection

## Application:

- Laptop, Tablet
- Portable Chargeable Equipment

## LDO



DFN1\*1



SOT23-5



SOT23-6



SOT223



SOT89

## Features :

- Low Vin 2.5-5.5V Series
- High Vin 12V-40V Series

## Application:

- Portable electronic equipment
- Smart Phone, Tablet, Smart Wear
- Camera, Image Sensor
- WiFi Module, NB-Iot

Type c  
Protection IC

LDO

# Product Application

Security System



Display Application



Consumer Electronics



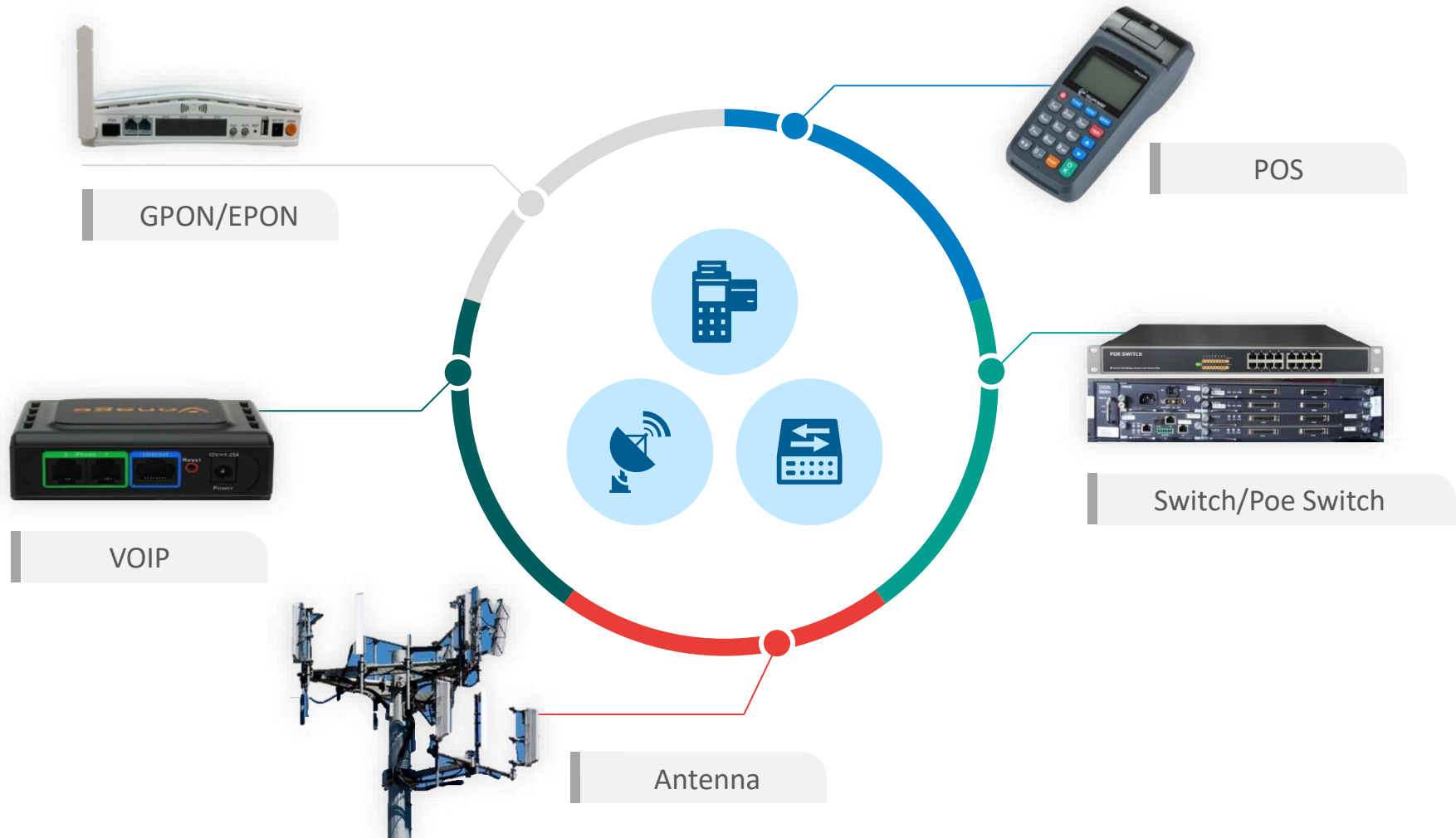
Network  
&  
Communication



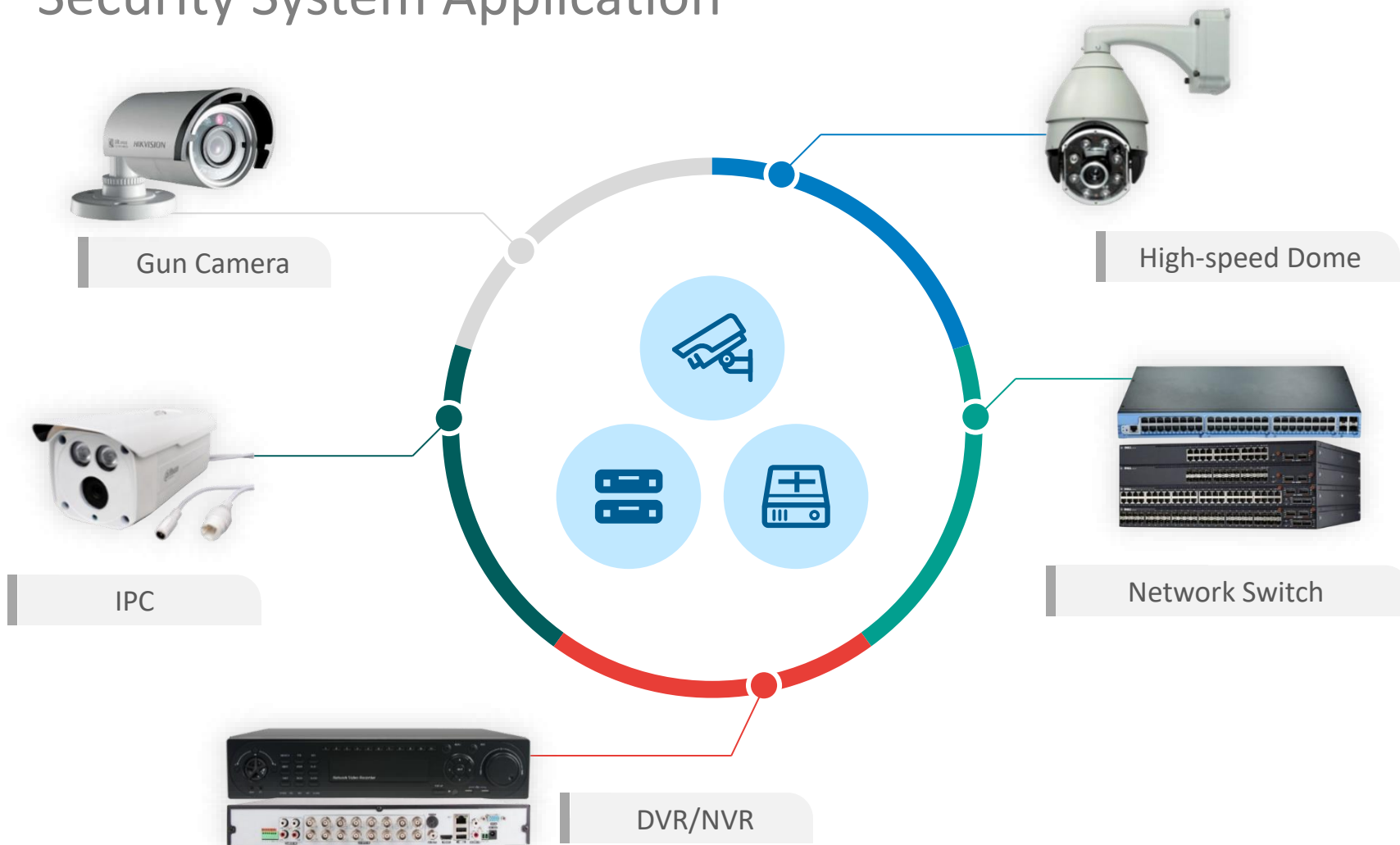
Automotive



# Network & Communication Application



# Security System Application



# Mobile Phone & Display



# Battery Application





# Power Application Fields



SMPS



TV



Charger



Adapter



LED



Charging Pile

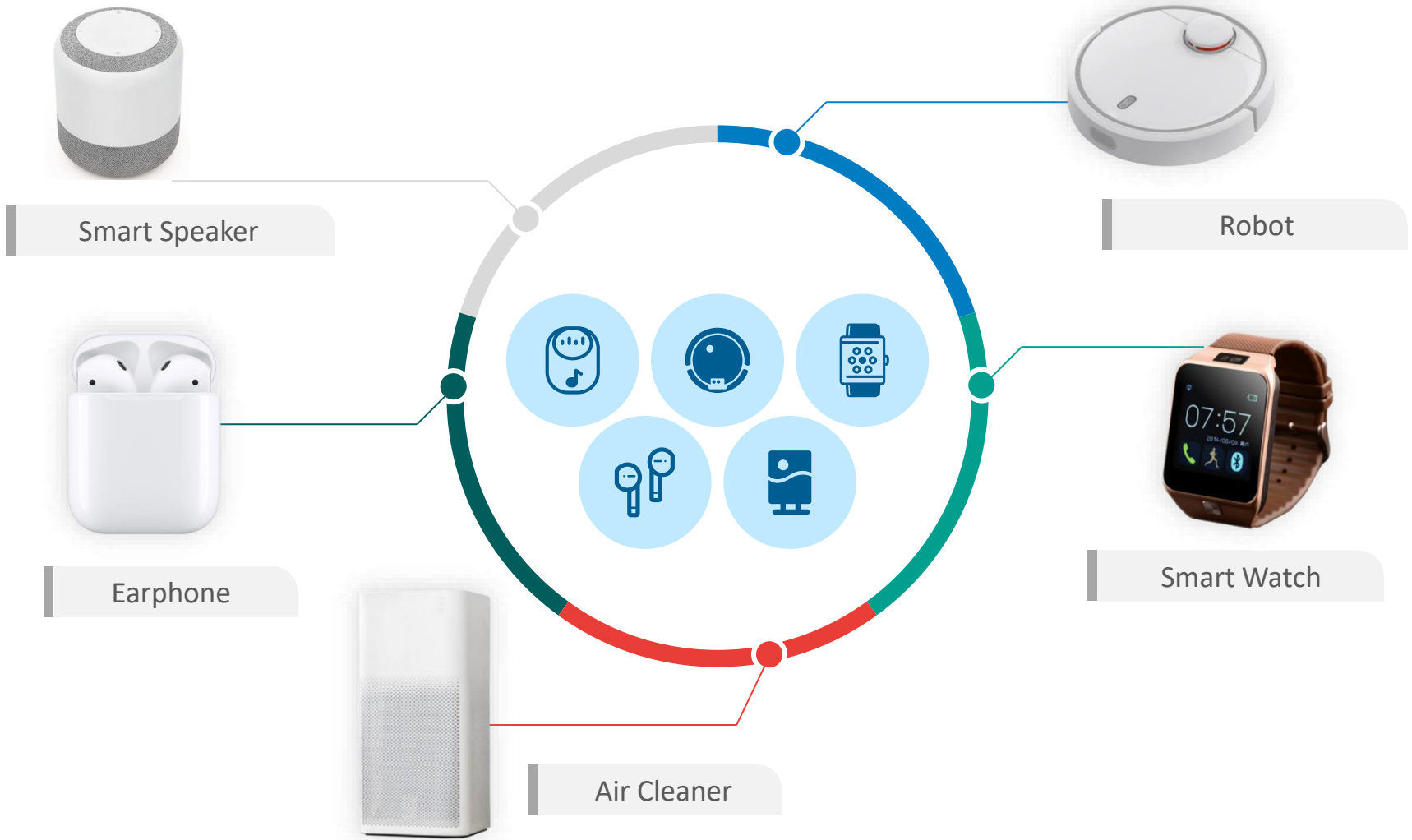


Server/UPS



PC

# Consumer Electronics Applications



# Automotive Micro Motor Application



**Window Motor**



**Sunroof Motor**



**Seat Adjustment Motor**



**Door-lock Motor  
Lumbar Motor**

# Automotive Electronics Application

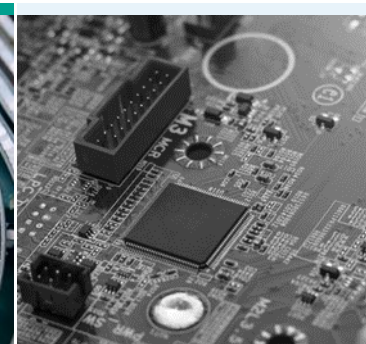
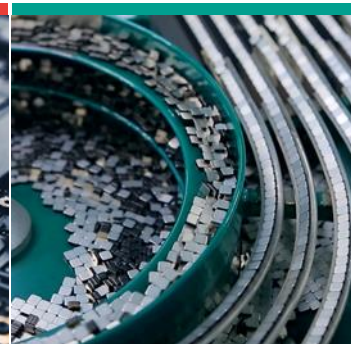
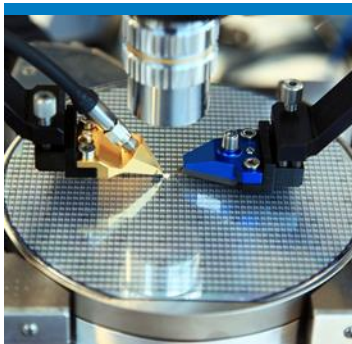


# Main customer

Network									
Security									
Mobile Phone									
Battery									
Consumer									
Display									
Power									
Automotive									



THANKS!



[www.way-on.com](http://www.way-on.com)



On The Way