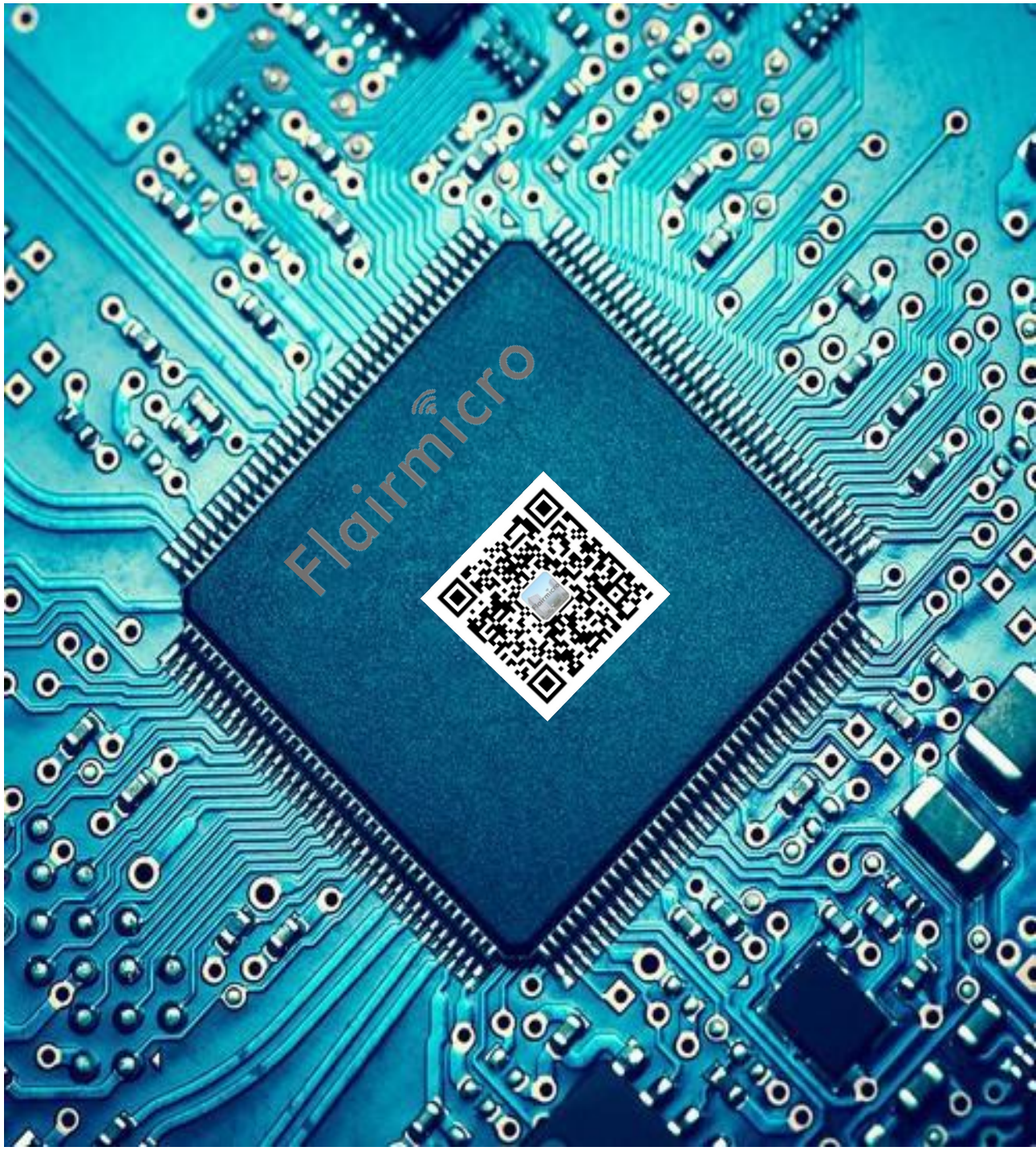
Flairmicro

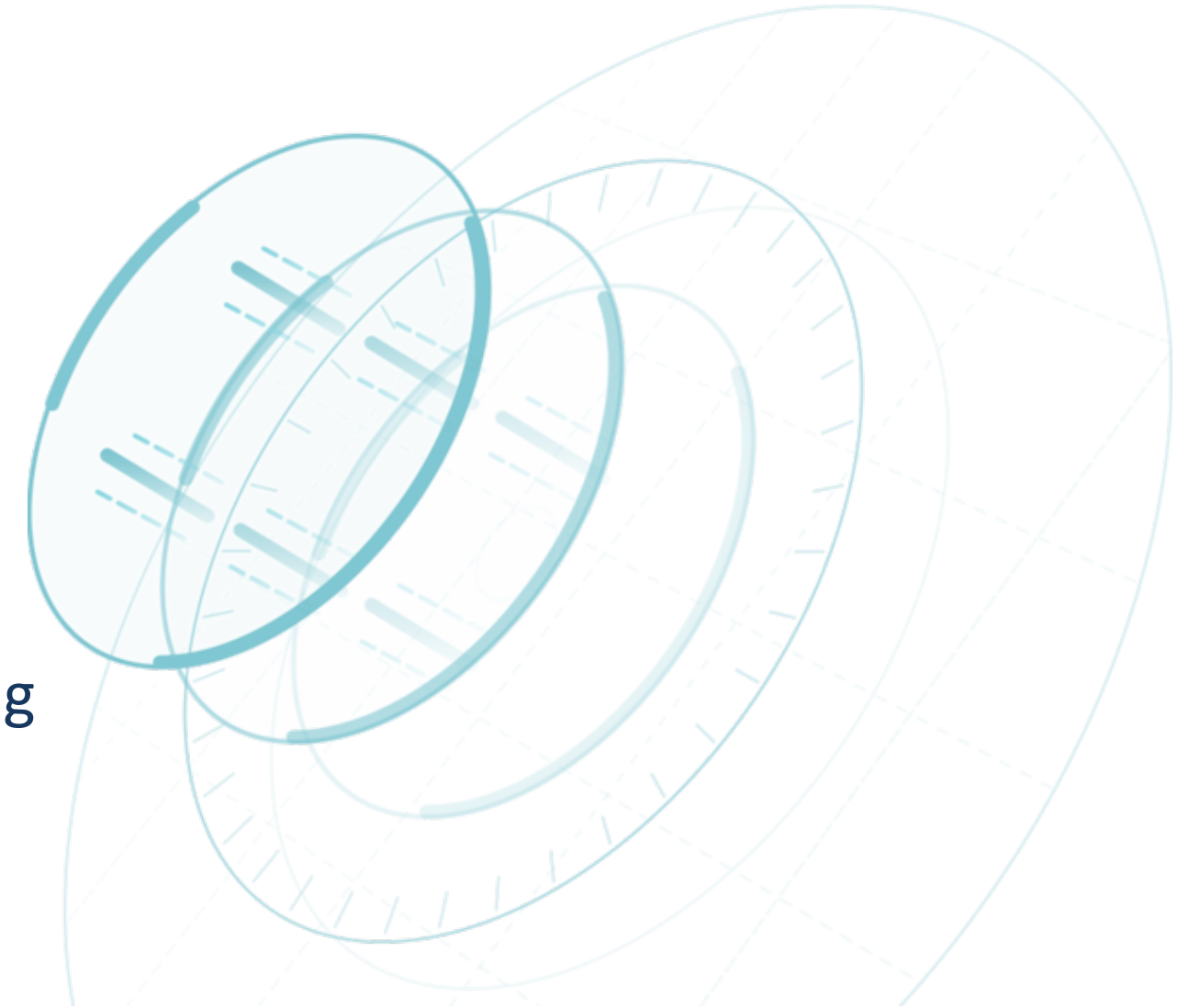
Your Reliable Partner of IOT

Flaircomm Microelectronics,Inc



C O N T E N T S

- About Flairmicro
- IOT Application
- Smart Manufacturing



Flairmicro

About Flairmicro

About Flairmicro

Flairmicro is a high-tech enterprise dedicated to provide high-reliability, cost-effective wireless communications products for Internet of Things, car networking design, development of embedded software and overall solutions. With customers in more than 20 countries and are worldwide leading provider of IoT and vehicle networking solutions.

Location

01
Fuzhou-HQ
Car networking and IoT research and development, logistics

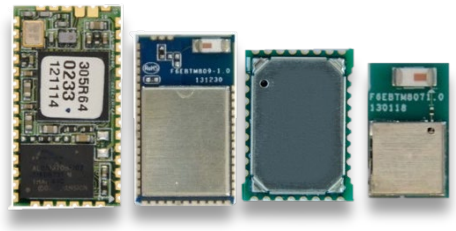
02
Xiamen
IoT research and development

03
Shanghai
Car networking research and development

04
Nanjing
Production Site

05
Shenzhen
Sales, Production Site

What we do

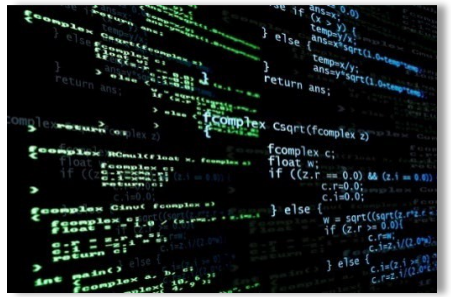


IOT short-distance communication module

- Bluetooth, WIFI, Positioning, Ample configuration
- Meet strict requirement of automobile before-market
- Remarkable radio-frequency performance
- Reliable and simple interfaces

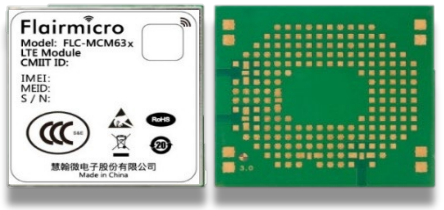
IOT & V2X Device

- Support all mainstream communication mode
- Ample input and output interface
- High-reliable and cost-effective
- Support E/B/I Calls
- Support built-in battery and antenna



Stacks & Algorithm

- Stable and reliable communication profiles
- Outstanding acoustic algorithm
- Secure and reliable vehicle communication profile
- Highly customized services



V2X Cellular module

- Support multiple communication mode
- Support three communication operators in China at the same time
- Pass strict reliability testing
- Support software customize development

Industry Position

China's largest supplier of automotive frontend and industrial IoT modules

First in China to MP automotive frontend TBOX products and with highest qty shipped

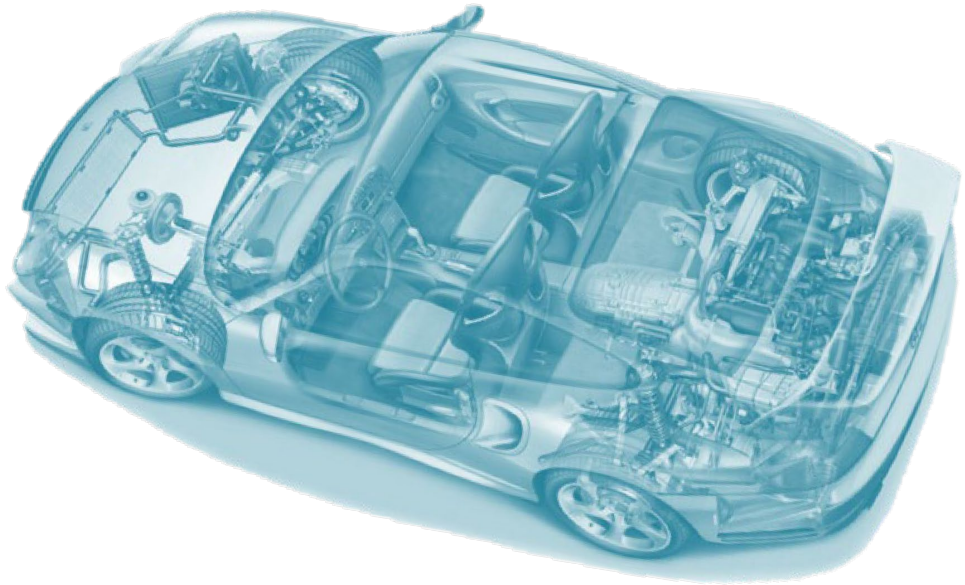
China's first commercial vehicle frontend 4G LTE module and TCU

World ‘s first mass produced Internet car (SAIC/Alibaba - RX5)
TCU supplier

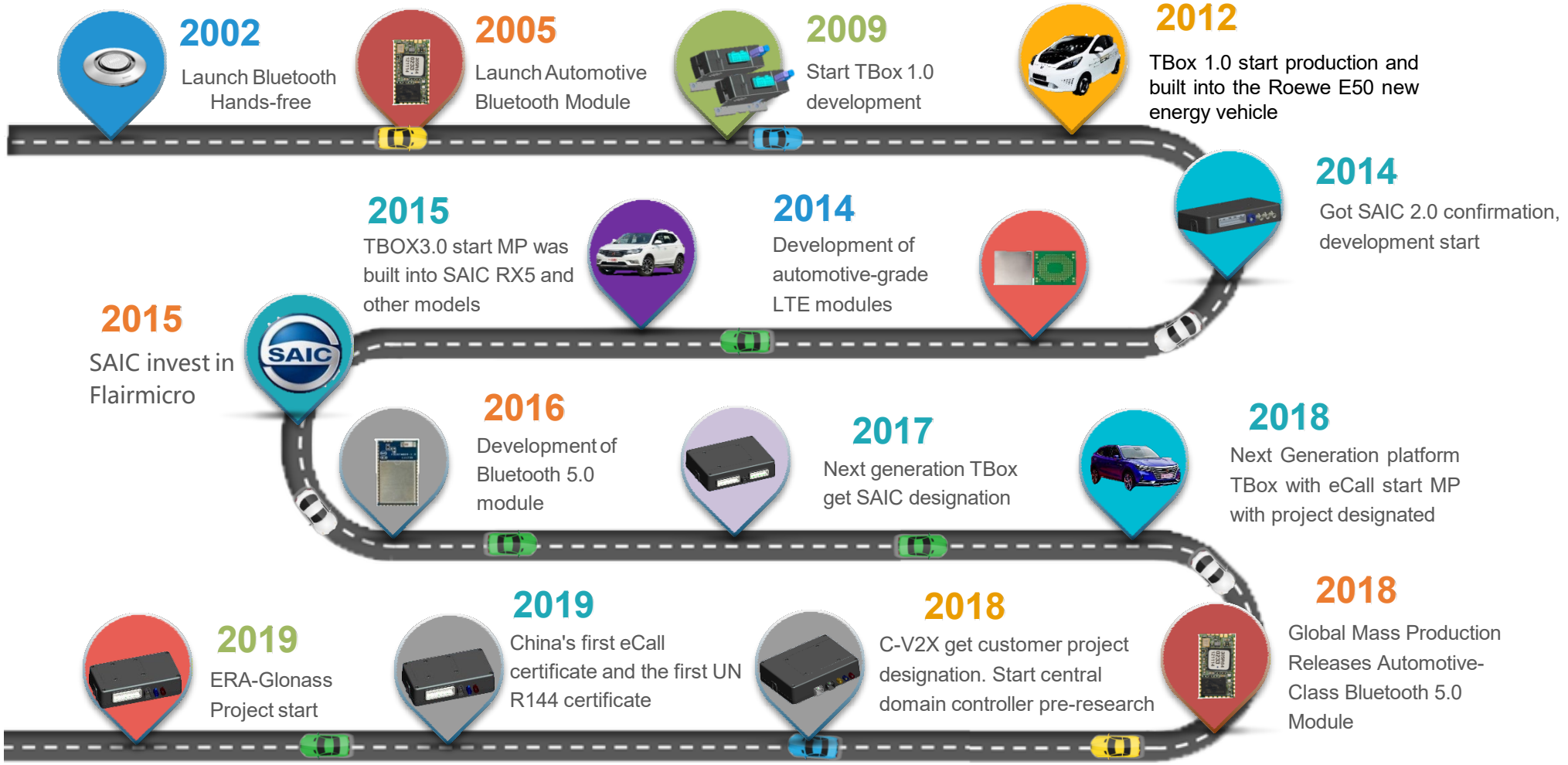
One of the few suppliers in the world that can develop and mass produce automotive LTE modules and TCU

Complete the world's largest automotive FOTA in 2017

First Automotive networking supplier in China to receive E-Call certificate through EU certification

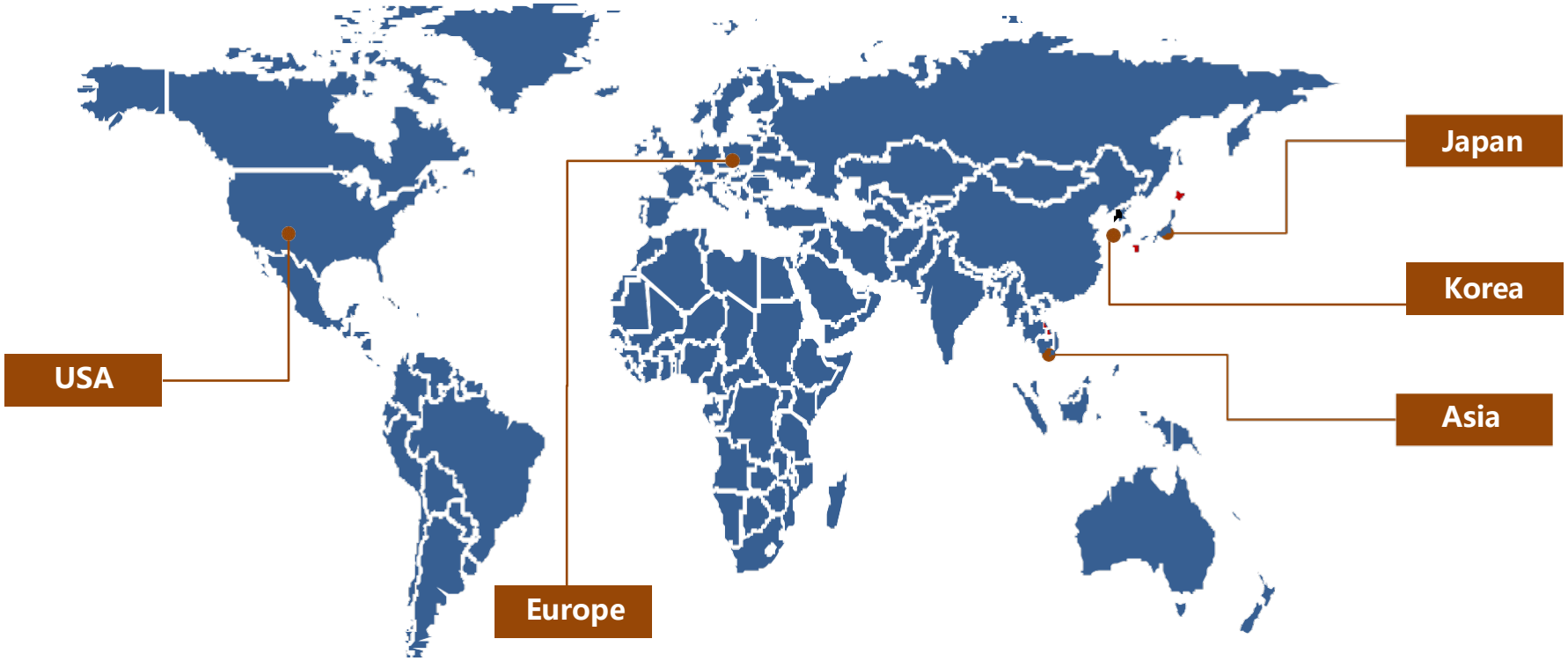


History of Development



Overseas Markets and Channels

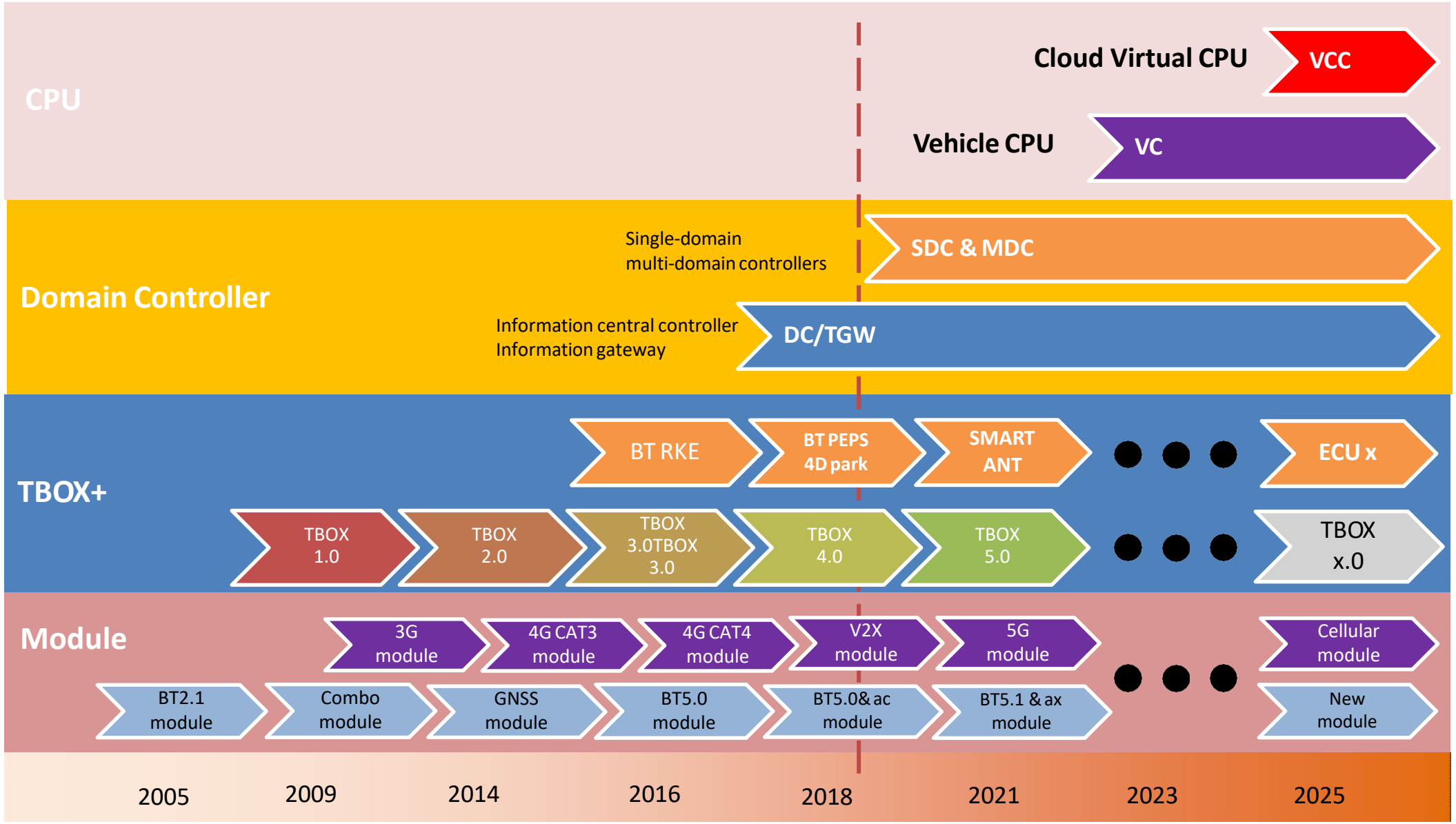
Flairmicro monitor the global market to promote superior technology and products to Worldwide Overseas Market and Partners .



Partnership

Partnership

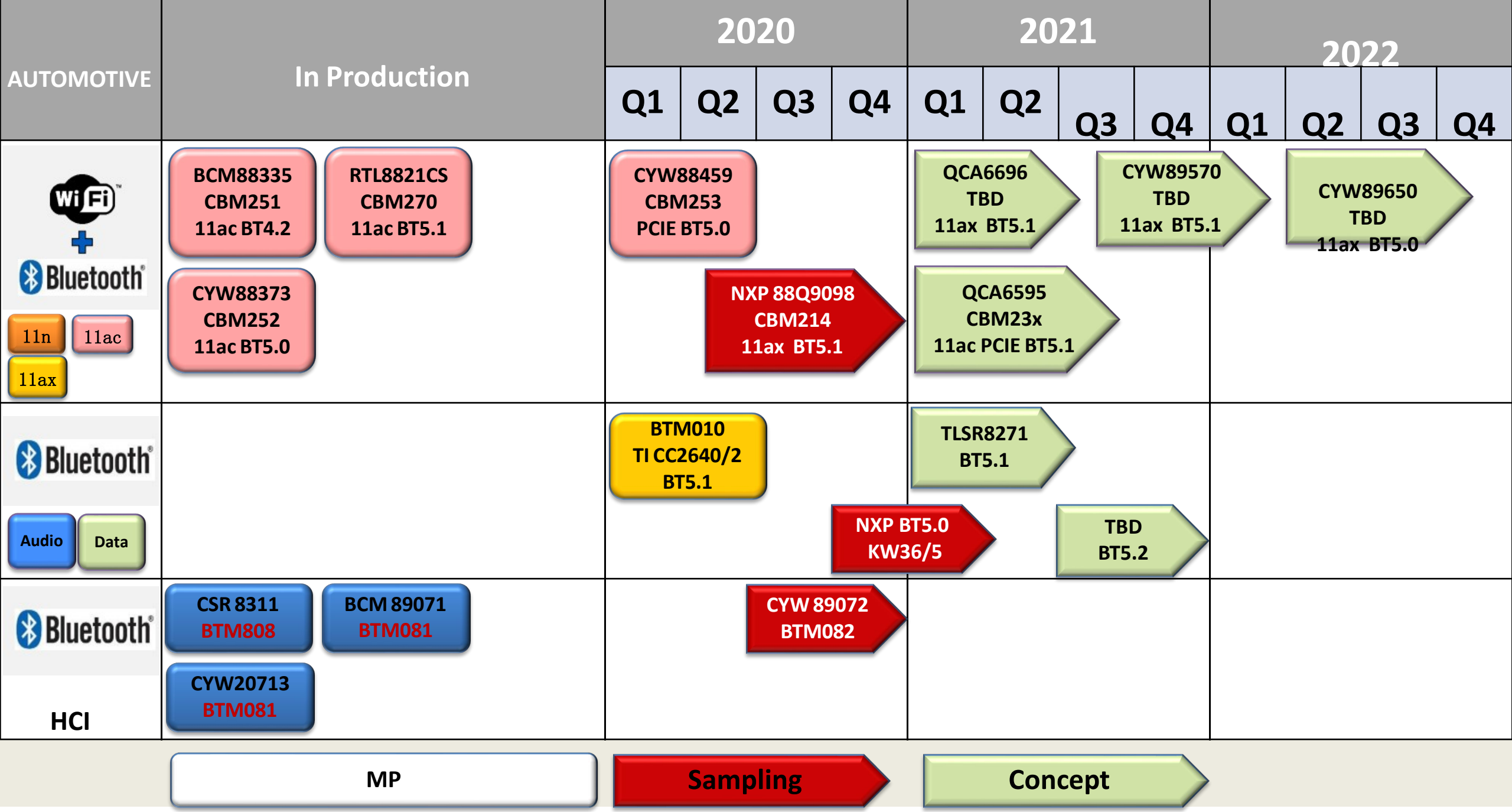
Technology Evolution

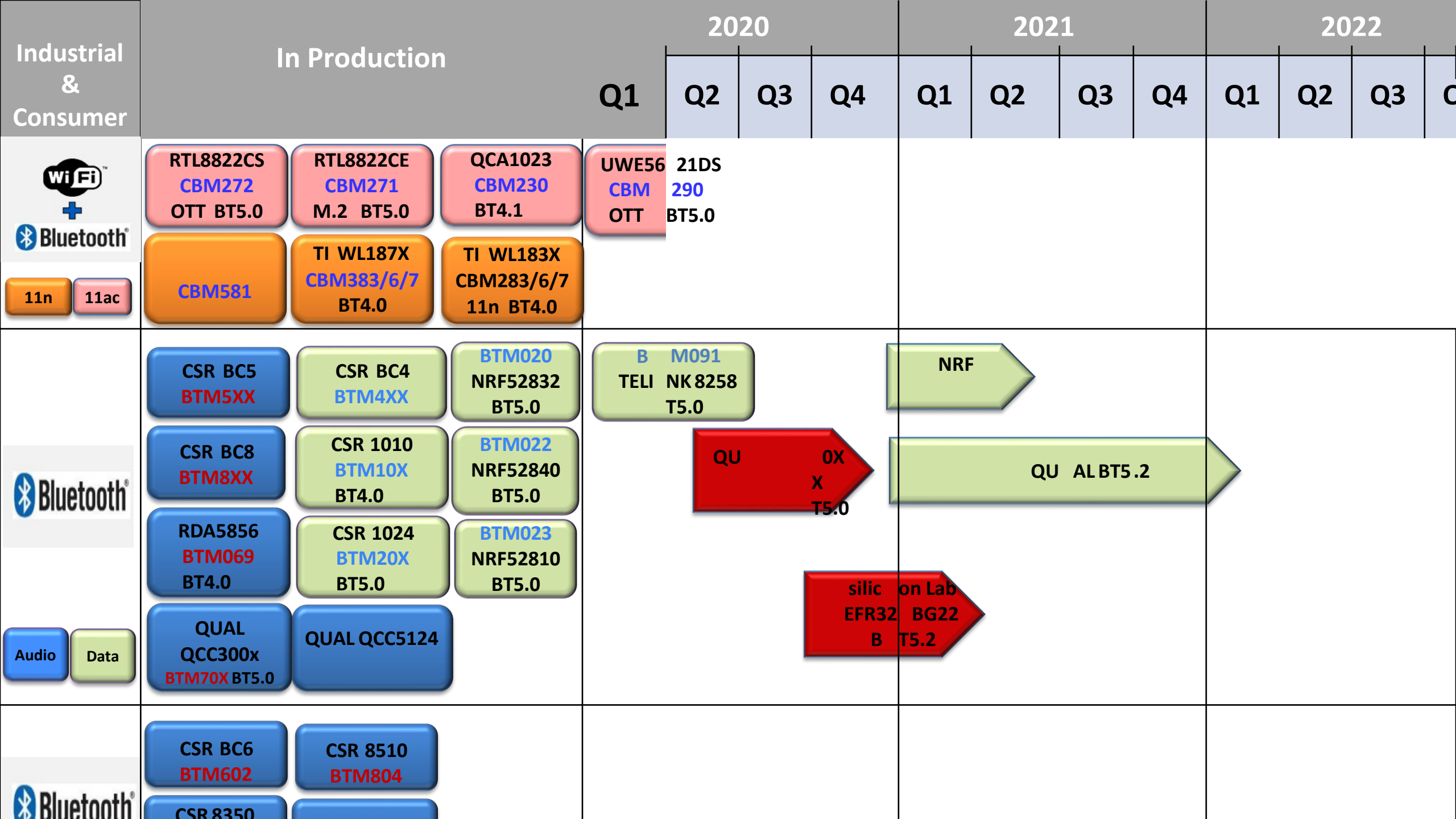


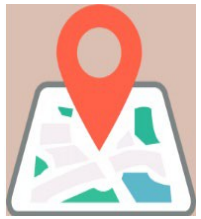
Flairmicro

IOT

Provides communication modules， Protocol Stack， Acoustic algorithms，Software middleware， Smart Terminals， Complete solutions such as management platforms。


AUTOMOTIVE
In Production
2020
2021
2022
Q1
Q2
Q3
Q4
Q1
Q2
Q3
Q4
Q1
Q2
Q3
Q4
WiFi
Bluetooth
11n
11ac
11ax
BCM88335
CBM251
11ac BT4.2
RTL8821CS
CBM270
11ac BT5.1
CYW88373
CBM252
11ac BT5.0
CYW88459
CBM253
PCIE BT5.0
NXP 88Q9098
CBM214
11ax BT5.1
QCA6696
TBD
11ax BT5.1
CYW89570
TBD
11ax BT5.1
CYW89650
TBD
11ax BT5.0
QCA6595
CBM23x
11ac PCIE BT5.1
Bluetooth
Audio
Data
BTM010
TI CC2640/2
BT5.1
TLSR8271
BT5.1
NXP BT5.0
KW36/5
TBD
BT5.2
Bluetooth
HCI
CSR 8311
BTM808
BCM 89071
BTM081
CYW20713
BTM081
CYW 89072
BTM082
MP
Sampling
Concept


Industrial & Consumer
In Production
2020
2021
2022
Q1
Q2
Q3
Q4
Q1
Q2
Q3
Q4
Q1
Q2
Q3
Q
RTL8822CS CBM272 OTT BT5.0
RTL8822CE CBM271 M.2 BT5.0
QCA1023 CBM230 BT4.1
UWE56 CBM OTT
21DS 290 BT5.0
CBM581
TI WL187X CBM383/6/7 BT4.0
TI WL183X CBM283/6/7 11n BT4.0
11n
11ac
CSR BC5 BTM5XX
CSR BC4 BTM4XX
BTM020 NRF52832 BT5.0
B M091 TELI NK 8258 T5.0
NRF
CSR BC8 BTM8XX
CSR 1010 BTM10X BT4.0
BTM022 NRF52840 BT5.0
QU 0X X T5.0
QU AL BT5 .2
RDA5856 BTM069 BT4.0
CSR 1024 BTM20X BT5.0
BTM023 NRF52810 BT5.0
silic on Lab EFR32 BG22 B T5.2
QUAL QCC300x BTM70X BT5.0
QUAL QCC5124
Audio
Data
CSR BC6 BTM602
CSR 8510 BTM804
CSR 8350

Industrial & Consumer	In Production	2020				2021				2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	VIA MCM230 CDMA2000 EVDO	Qualcomm 9215 CAT3 MCM630A LTE&WCDMA& GSM		Qualcomm 9207 CAT1 TBD LTE&GSM		5G+V2X module Balong 5000/SA515M/							
	Qualcomm 8215 MCM530 GSM&WCDMA	Qualcomm9615 CAT3 MCM63MA LTE&WCDMA GSM&CDMA		春藤 8910DM CAT1 TBD LTE&GSM		5G module Balong5000/SA515M/X55							
2G&3G 4G 5G V2X	Qualcomm 9628 CAT4 MCM63MC LTE&WCDMA GSM&CDM	Qualcomm 9607 CAT4 MCM63MB LTE&WCDMA&GSM&CDMA		MTK MT2731 CAT4 MCM67MAL1A LTE&GSM		ASR 1603 TBD CAT1							
	Unicore UC221 SLM301	Allystar HD8020 SLM310				Allystar HD92/3XX TBD							
	Allystar HD8021 SLM311							GNSS+DR TBD					
	ESPRESSIF ESP8266 WFM011/012	Atheros AR6302 CBM2A1		RTL8720 CBM273 SOC BT5.0		NXP NCJ29D5 UWB							
				ST25R3914 NFC									

Flairmicro

IOT Solutions

Cold chain, motor monitoring, industrial monitoring, automotive applications, conference system

Bluetooth car control, door lock application, Bluetooth tire pressure monitoring, Bluetooth intercom system

Applications of IOT module

Before market & after market

Car video system

Navigation

Car infotainment

Car air fresheners

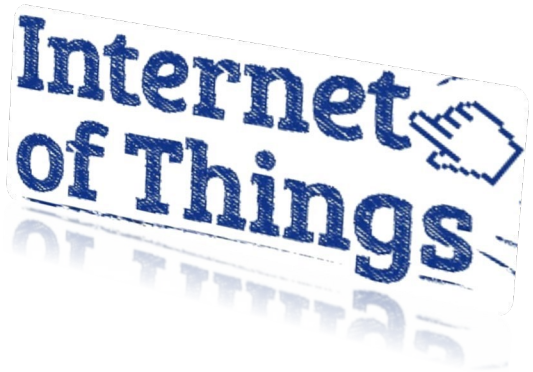
Smart rearview mirror

Applications of IoT module

Infrared sensor

Commercial lighting

Agriculture



Energy Management

Video conference system

Logistic

Industrial PDA

Applications of IoT module

Health care, Sports

Wrist strap

Kinds of Lighting

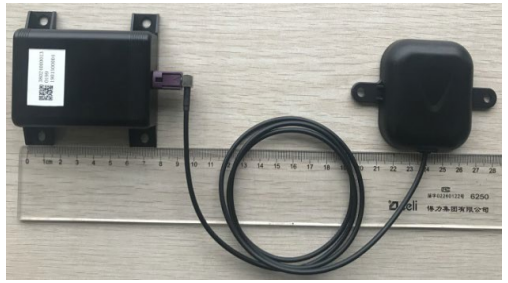
DIY Device

Intercom system

Home automation

Entertainment (Games or audio)

IoT solution



IOT-RDB

- remote database bridge
- GPRS.GPS
- CAN connect
- Controlled by remote platform
- Monitor device remotely
- Local data analyst and transmit

IOT-Parking detection

- Status detection of parking space
- Remote management and monitoring
- Real-time parking information update
- NB-IOT, BLE
- Temperature detection
- Waterproof and anti-theft

V2X-BLE PEPS

- BLE5.0
- AOA/TOF technology
- Precise location 20cm
- The location of mobile phone can be located with multiple nodes

IOT-DBOX

- GPS,GPRS,BLE
- Support OBD protocol
- Remote device diagnosis
- Location information and track recording
- Built-in basic diagnostics
- electronic fence

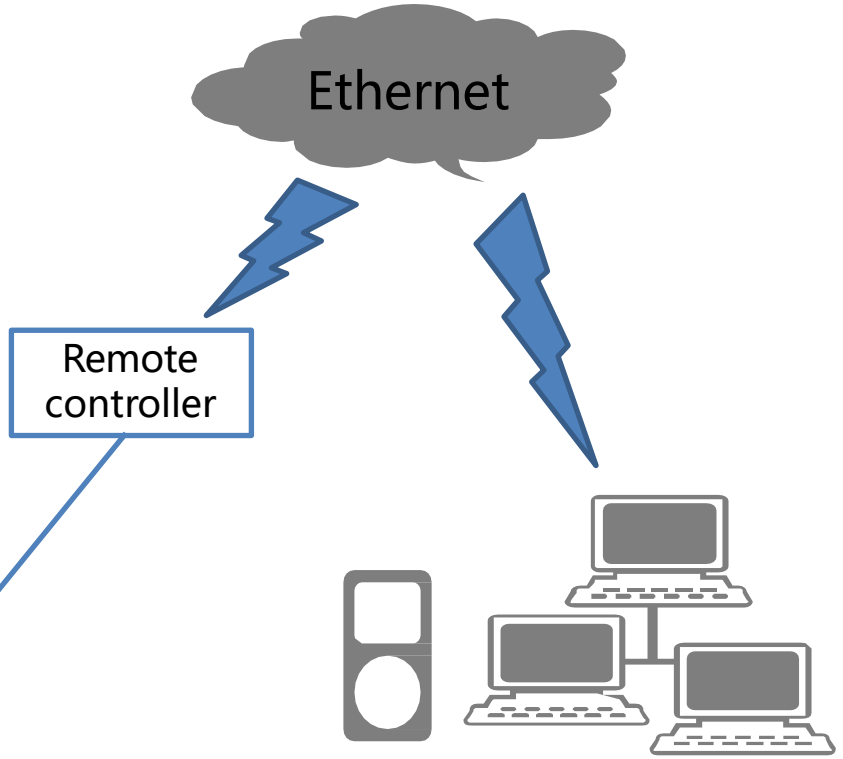
Cold chain control

To monitor refrigerators' working condition to ensure food safety

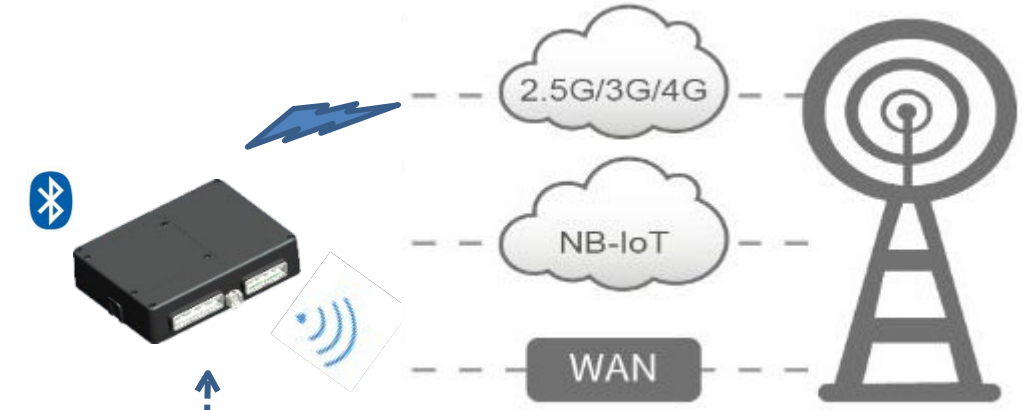
To collect:
Freezer temperature
Freezer status

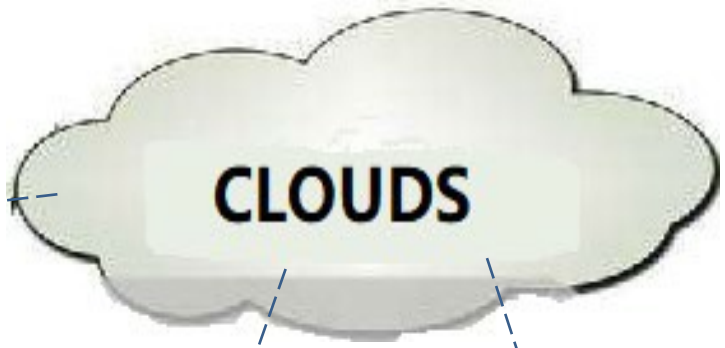
To control:
The refrigerator operation
The temperature of the freezer

Refrigerator asset tracking



Motor monitoring solution





Monitoring: real-time status, preventive maintenance, control intervention, etc

电动机

Data Collection: temperature, vibration, current, running state, etc.;

手机端

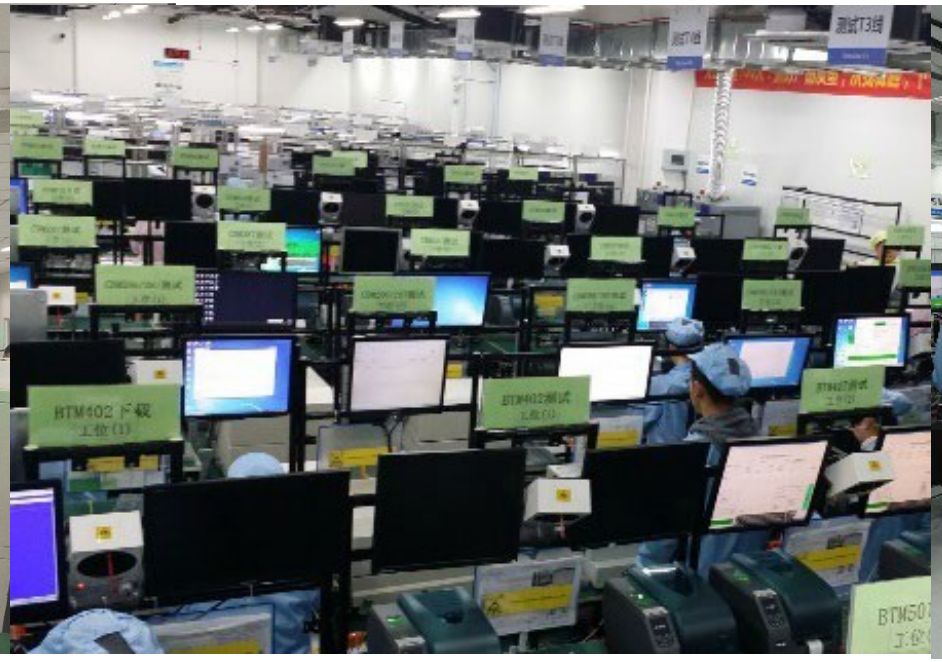
Flairmicro

Intelligent manufacturing center

Strictly in accordance with the production requirements of microelectronic products planning and construction, configuration of the industry's cutting-edge production and testing equipment, has passed IATF16949, ISO9001, ISO14001.

Smart Manufacturing

MFG center is completely in accordance with the production requirements of microelectronic products, including SMT, Test, Assemble workshop with a stable team of operators and test engineers.



Manufacturing Capability

SMT line（ SMT production capacity 81million patch point s/month）

- 2 fully automatic SMT lead-free production lines
- 1 lead-free wave-soldering line
- 2 units Milling cutter splitter

Short range module test shop (capacity 650k pieces/month)

- 6 lines for BT, WiFi, GPS module test
- 1 line for pack

Test & assembly shop

- 2 lines for IOV & IOT products assembly and test
- 1 line for LTE test

Certificates

ISO9001

2015.10

2015.11

ISO14001

2016.12

TS 16949

2016.12

IATF 16949

2017.12

ISO27001

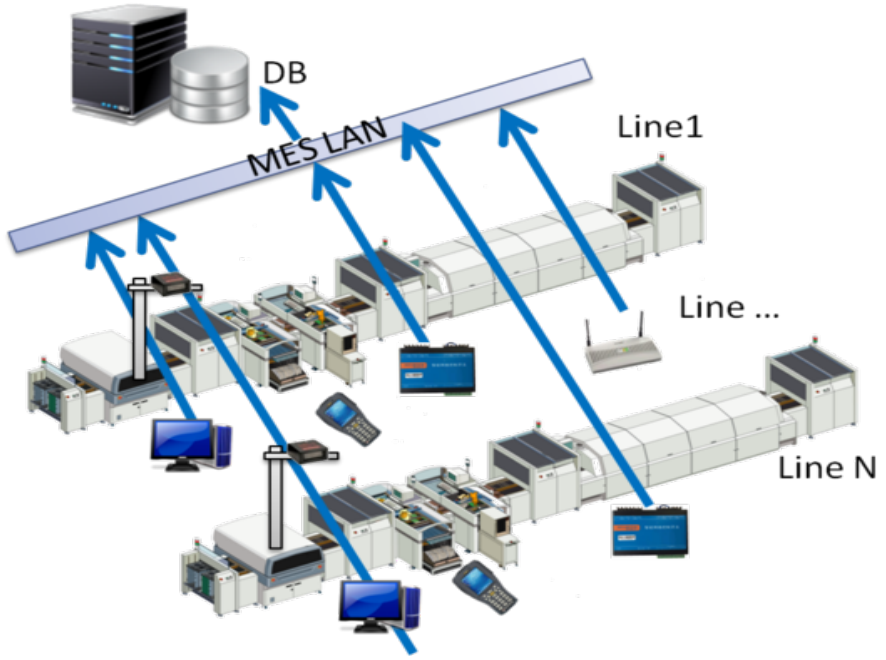
信息安全管理体系

Processing
2020.12

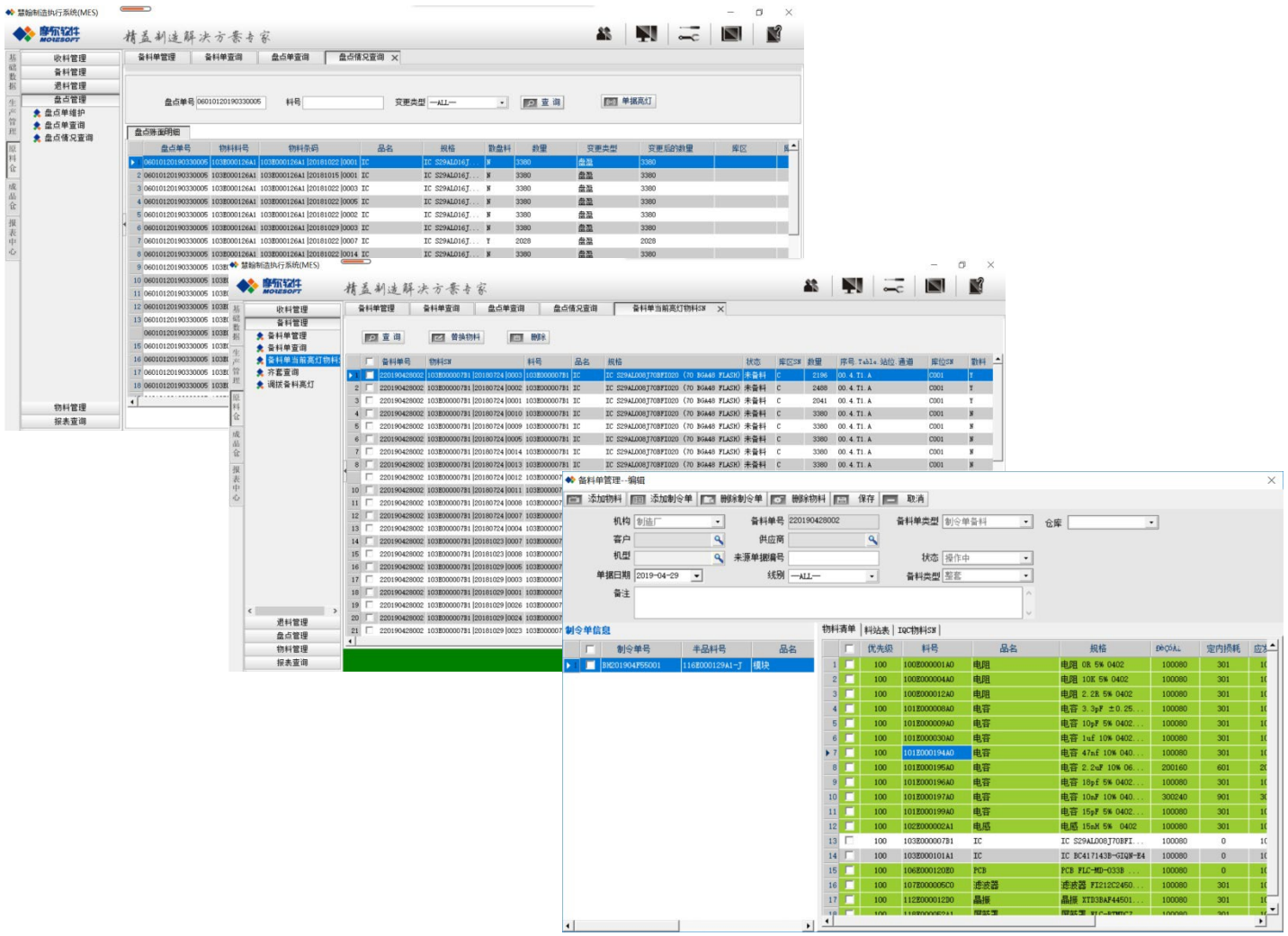
Manufacturing management system

ERP

MES



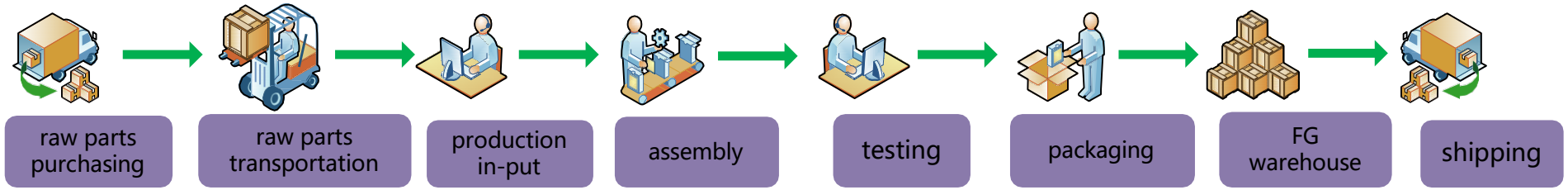
Intelligent Warehousing



Quality Management-Traceability

Forward Tracing: Based on material information (SN/Lot Code), we can trace the products using the material for each work order, and further trace the equipment, personnel, work stations related to the product and the destination of the shipments.

Reverse Tracing: Based on a shipping order, we can trace back to the materials of the products, and related equipment, personnel and working stations.



Receiving ⟷ Material Transfer ⟷ Material Transfer ⟷ Product Serial No. ⟷ Storage ⟷ Material Transfer ⟷ Material Transfer

supplier info
material lot No.
material name
receiving and out going info
model No. ... ...

operator | EQ | station
material in-put | Software | quality
... ...

Package testing info

Supplier name Material batch
The name of the material To send and receive information specifications

Flairmicro

ELEKTRONIK
Blume

partnership in excellence

Christoph Haßenpflug

BLUME ELEKTRONIK DISTRIBUTION GMBH

TECCENTER 1 I 31162 I BAD SALZDETFURTH

FON:(0 50 63) 27 12-228 I FAX:(0 50 63) 27 12-12

EMAIL: C.HASSENPFLUG@BLUME-ELEKTRONIK.DE

WWW.BLUME-ELEKTRONIK.DE