



Forlinx Embedded Technology Co., Ltd



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About us

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15
years

Experience

Founded in 2006 and located in
Baoding City

10K+

Enterprise clients

Industrial control, IoT,
Transportation, medical, etc.

40%

R& D input

Technical bases in Beijing and
Baoding

6000 m²

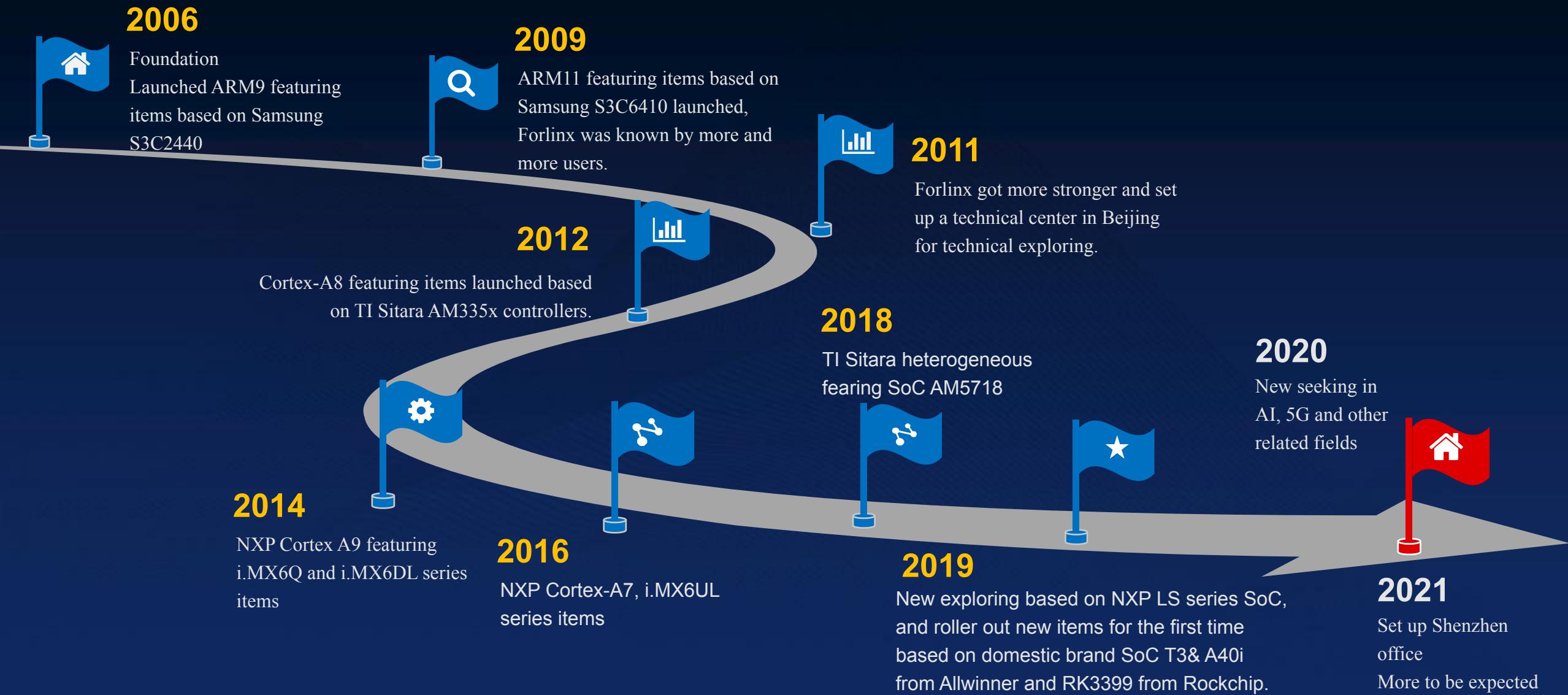
Working area

Independent factory consists of
R&D, manufacturing and
marketing teams

Started from year of 2006, Forlinx Embedded Technology Co., Ltd. is a leading provider of trusted ARM® technology based embedded products and solutions. Our main products are single board computer(development board), system on module(SoM) and embedded computers specially designed for target applications based on world mainstream SoCs such as NXP, TI Sitara, Samsung, Allwinner, Rockchips, Hisilicon, etc.

Forlinx offers comprehensive hardware designing, system integration and product selling with global logistics support. Aiming at providing customers with good-quality, high-performance products and technical service to help clients to shorten their product time-to-market. In the past 15 years, Forlinx has gained much valued experience and our products have widely used in all walks of life such as IoT, industrial control, medical, electronics, smart home, environmental monitoring and other smart devices, and Forlinx was honored to certified as TI Sitara's IDH and NXP's gold partner.

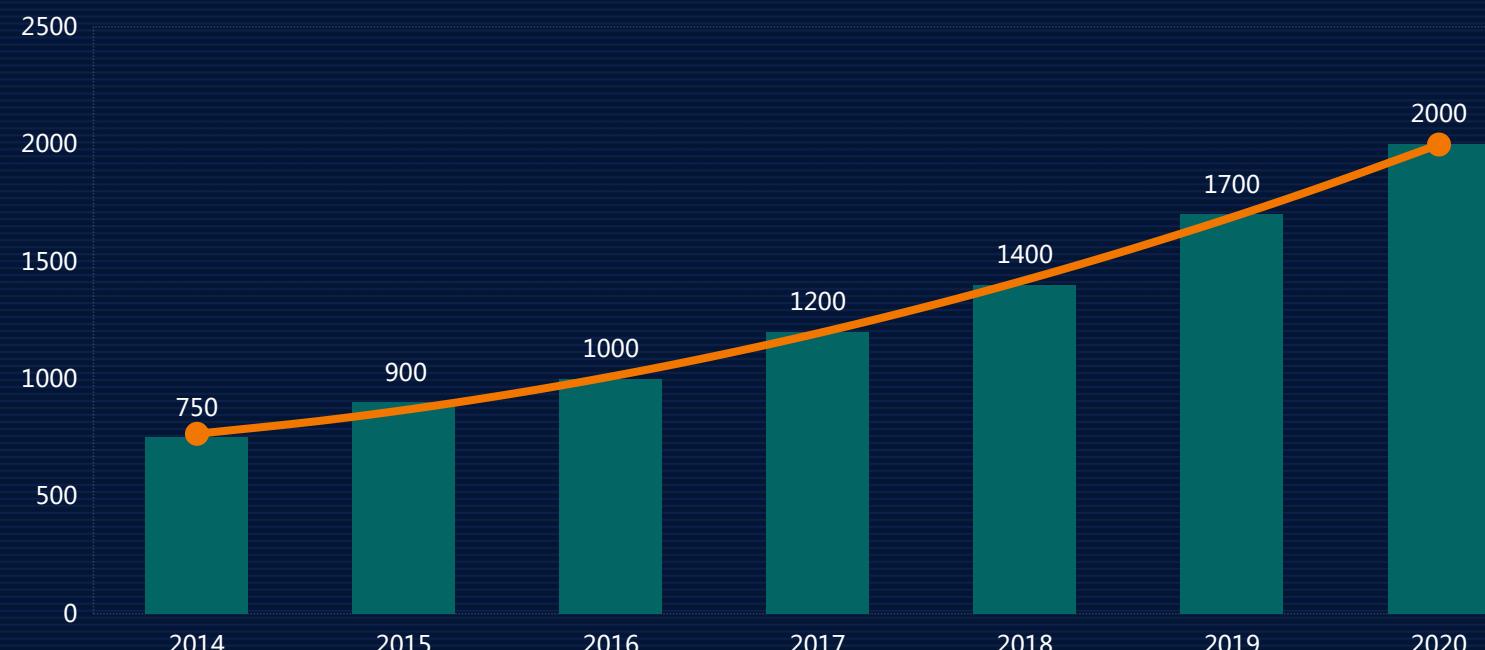
In the future will continue to do more technical and product exploring to take users more better products and service.



Revenue

20%
growth rate
per year

General revenue(million USD)



Forlinx





Core technology and product

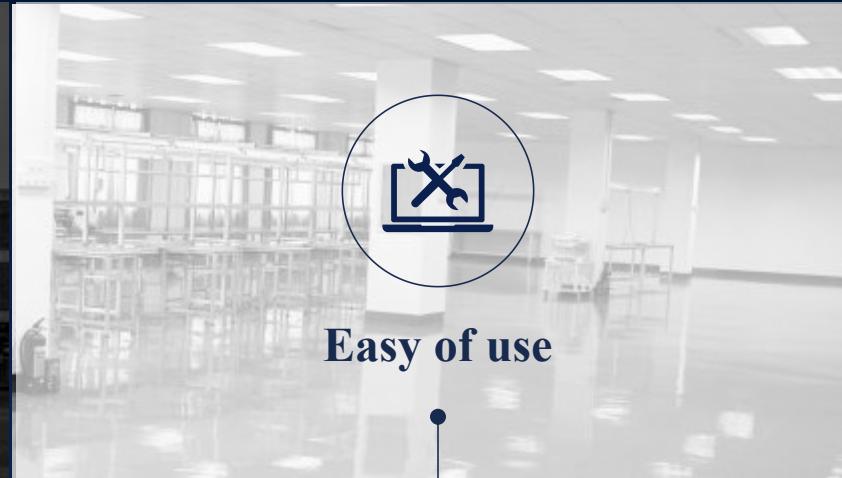
Product positioning R& D guarantee

Product positioning

Focusing on smart devices' core parts designing, manufacturing, and related hardware and firmware technical supporting.



Professional, Dedicated



Easy of use



Reliability

15 years experience

**Users can do product
designing based on Forlinx
SoM, shorten their product
time-to-market.**

**Stable supplying chain,
after-sale technical
supporting service**

Main product

System on Module

Single board computer

Embedded computer

All-in-one panel

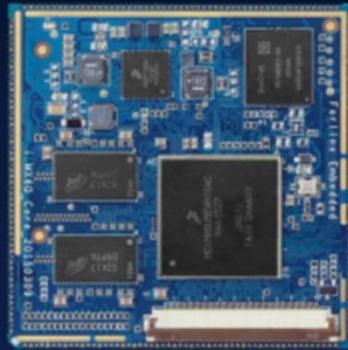
Designing service

NXP Cortex-A9 i.MX6 series



FETMX6Q-S SoM

CPU: NXP i.MX6Quad
Architecture: ARM Cortex-A9
Frequency: 1GHz
RAM: 1GB DDR3/2GB DDR3
Flash: 8GB eMMC



FETMX6DL-S SoM

CPU: i.MX6DL
Architecture: Cortex-A9
Frequency: 1GHz
RAM: 1GB DDR3/2GB DDR3
Flash: 8GB eMMC



FETMX6Q-C SoM

CPU: NXP i.MX6Quad
Architecture: ARM Cortex-A9
Frequency: 1GHz
RAM: 1GB DDR3/2GB DDR3
Flash: 8GB eMMC



FETMX6DL-C SoM

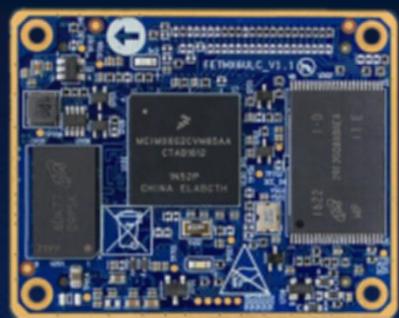
CPU: i.MX6DL
Architecture: Cortex-A9
Frequency: 1GHz
RAM: 1GB DDR3/2GB DDR3
Flash: 8GB eMMC

NXP Cortex-A7/ M7 series



FETMX6ULL-S SoM

CPU: i.MX6ULL
Architecture: Cortex-A7
Frequency: 800MHz
RAM: 256MB DDR3/512MB DDR3
Flash: 256MB NandFlash/4GB eMMC



FETMX6UL-C SoM

CPU: NXP i.MX6UltraLite
Architecture: Cortex-A7
Frequency: 528MHz
RAM: 12MB LvDDR3
Flash: 4GB eMMC



FET1061-S SoM

CPU: NXP i.MXRT1061
Architecture: Cortex-M7
Frequency: 528MHz
RAM: 1MB
Flash: 4MB QSPI NorFlash



FET1052-C SoM

CPU : NXP i.MX RT1052
Architecture: Cortex-M7
Frequency: 528MHz
QSPI Flash : 4MB
RAM : 16MB

NXP i.MX8M Series



FETMX8MM-C SoM

CPU : NXP i.MX8M Mini
Architecture: Cortex-A53+ M4
Frequency: 1.6GHz
RAM: 2GB DDR3
Flash: 8GB eMMC



FETMX8MQ-C SoM

CPU : NXP i.MX8MQ
Architecture: Cortex-A53+M4
Frequency: 1.3GHz
RAM: 2GB DDR4
Flash: 8GB eMMC



FETMX8MP-C SoM

CPU : NXP i.MX8MP(Quad core)
Architecture: Cortex-A53+ M7
Frequency: 1.6GHz
RAM: 4GB LPDDR4
Flash: 16GB eMMC

NXP LS10xx Series



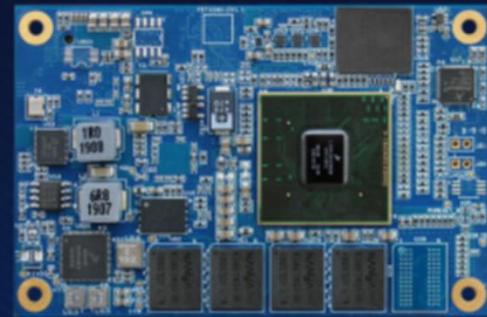
FET1012A-C SoM

CPU: NXP LS1012A
Architecture: ARM Cortex-A53
Frequency: 1GHz
RAM: 512MB DDR3
Flash: 8GB eMMC



FET1028A-C SoM

CPU: NXP LS1028A
Architecture: Cortex-A72
Frequency: 1.5GHz
RAM: 2GB DDR4
Flash: 8GB eMMC



FET1043A-C SoM

CPU : NXP LS1043A
Architecture: Cortex-A53
Frequency: 1.6GHz
RAM: 2GB DDR4
Flash: 16MB QSPI NorFlash/8GB eMMC



FET1046A-C SoM

CPU: NXP LS1046A
Architecture: Cortex-A72
Frequency: 1.8GHz
RAM: 2GB DDR4
Flash: 16MB QSPI NorFlash/8GB eMMC

Allwinner Series



FETA40i-C SoM

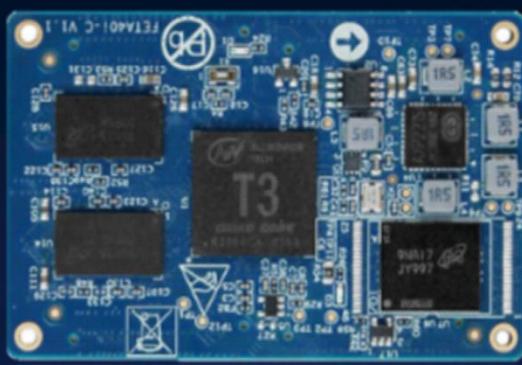
CPU: A40i

Architecture: ARM Cortex-A7

Frequency: 1.2GHz

RAM: 1GB DDR3L

Flash: 8GB eMMC



FETT3-C SoM

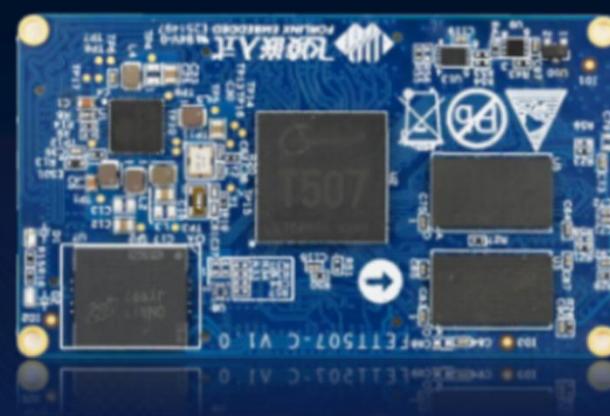
CPU: T3

Architecture: ARM Cortex-A7

Frequency: 1.2GHz

RAM: 1GB DDR3L

Flash: 8GB eMMC



FETT507-C

CPU : T507

Architecture : ARM Cortex-A53

Frequency: : 1.5GHz

RAM : 2GB DDR3L

Flash : 8GB eMMC



Rockchip Series



FET3399-C SoM

CPU: RK3399

Architecture: Cortex-A72 , Cortex-A53

Frequency: 1.8GHz , 1.4GHz

RAM: 2GB LPDDR3

Flash: 16GB eMMC

TI Series



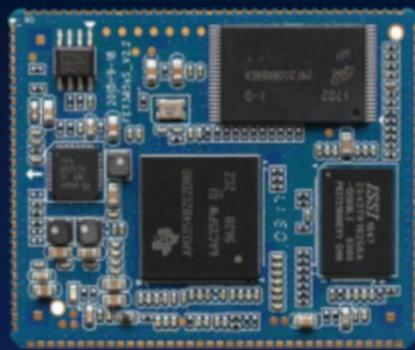
FET335xD SoM

CPU: TI AM335X
Architecture: ARM Cortex-A8
Frequency: 800MHz
RAM: 512M DDR3
Flash: 256M SLC NandFlash



FET335xS SoM

CPU : TI AM335X
Architecture: ARM Cortex-A8
Frequency: 800MHz
RAM: 512M DDR3
Flash: 256M SLC NandFlash



FET335xS-II SoM

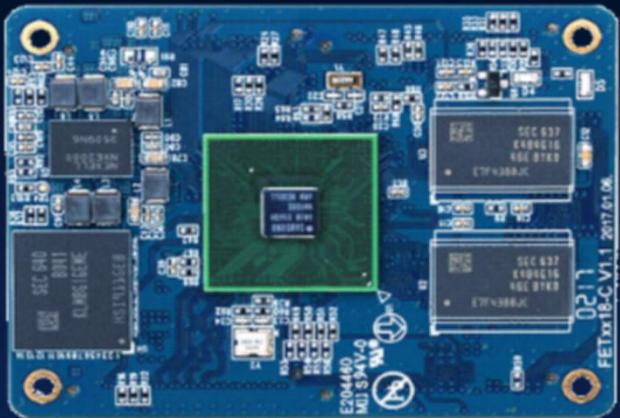
CPU : TI AM335X
Architecture: ARM Cortex-A8
Frequency: 600MHz
RAM: 128M DDR3
Flash: 256M SLC NandFlash



FET5718-C SoM

CPU : TI AM5718
Architecture: ARM Cortex-A15
Frequency: 200MHz
RAM: 1GB DDR3L
Flash: 8GB eMMC

Samsung Series



FET4418-C SoM

CPU: Samsung S5P4418

Architecture: ARM Cortex-A9

Frequency: 1.4GHz

RAM: 1GB DDR3

Flash: 8GB eMMC



FET6818-C SoM

CPU: Samsung S5P6818

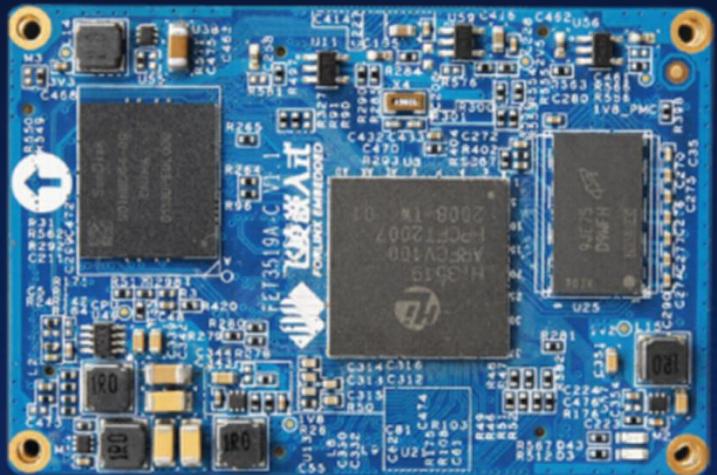
Architecture: ARM Cortex-A53

Frequency: 1.4GHz

RAM: 1GB DDR3

Flash: 8GB eMMC

Hisilicon Series



FET3519A-C SoM

CPU: Hi3519AV100

Architecture: Cortex-A53

Frequency: 1.5GHz

RAM: 2GB DDR4

Flash: 8GB eMMC



5G Gateway



Advanced 5G Gateway

Model: FCU2303

CPU: NXP LS1046A

Architecture: Cortex-A72 / Cortex-A53

Frequency: 1.8GHz / 1.6GHz

RAM: 2GB DDR4

Flash: 8GB

Low Price 5G Gateway

Model: FCU2201

CPU: NXP LS1012A

Architecture: Quad-core Cortex-A53

Frequency: 1GHz

RAM: 512MB DDR3L

Flash: 8GB eMMC



Embedded computer



FCU2401 embedded computer



FCU1101 embedded computer



FCU1201 embedded computer



FCU1103 embedded computer

CPU: A40i
Architecture: Cortex-A7
Frequency: 1.2GHz
RAM: 1GB DDR3L
Flash: 8GB eMMC

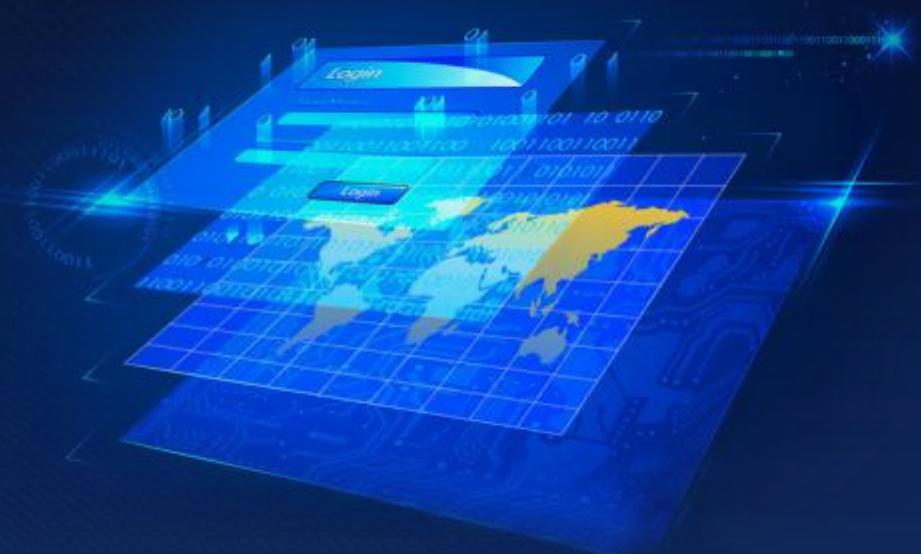
CPU: i.MX6UltraLite
Architecture: Cortex-A7
Frequency: 528MHz
RAM: 256MB DDR3
Flash: 256MB NandFlash
1GB NandFlash

CPU: i.MX6DL
Architecture: Cortex-A9
Frequency: 1GHz
RAM: 1GB DDR3
Flash: 8GB eMMC

CPU: i.MX6UltraLite
Architecture: Cortex-A7
Frequency: 528MHz
RAM: 256MB DDR3, 512MB DDR3L
Flash: 256MB NandFlash, 4GB eMMC

Technical files provided

- Forlinx kindly open carrier board schematic and PCB file for reference;
- Functional peripherals driver, testing demo and source code;
- Ready-to-use development environment;
- Carrier board minimum system and pinmux sheet;
- Application note;
- Extra technical support: schematic and PCB review to help users for trouble shooting

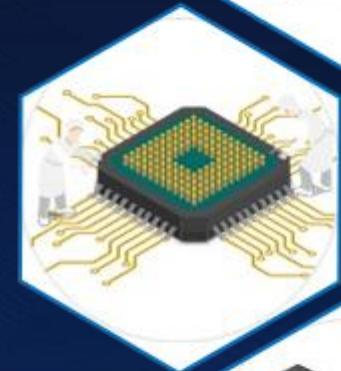


Carrier board
designing based
on Forlinx SoM



SoM designing

Kernel tailoring



Embedded computer
designing for target
application

Driver programming



System porting



41 intellectual properties or copyright

Certificates issued by China National Intellectual Property Administration and National Copyright Administration





High& low temperature testing

This is simulate users' environment to make sure all boards could long-term run in high& low temperature environment.

EMC testing

ESD, EMI and pulse testing



Product testing- stability, stressing, test in simulated environment

To users, Forlinx kindly provides product related technical files for users' development work.



Full functional testing to all products before items going out of factory. Forlinx promises 100% qualification rate.

Ongoing bug improvement to optimize product hardware and firmware performance.



Quality Control

Production ability Quality control

Quality management system

Production plant



Area

workshop: 2000m²



Production stuff

55



SoM capability

1 million pcs+ per year

Leading processing and assembly line for mass production to guarantee capability and product quality.

Production capability



Automatic solder printer



SMT machine



Reflow soldering



AOI



FAI



Walk-in constant temperature aging room



Full functional testing



BGA rework

Warehouse



First-in-first-out principle, strict temperature and humidity control



Standard material inventory

Material income, semi-finished product and product to be inspected all should be reasonably placed, 60000 stocked materials can meet mass production demand.



Informazition of warehousing operations

Forlinx Embedded promotes logistics standardization, adopts centralized warehousing management technology, accurately processes orders, and delivers on time; introduces automated equipment to improve warehousing and logistics efficiency.

Material Control

Strict control to all materials whole procedure.

- All components traceable.
- Strict supplier review mechanism, all product components and materials are directly supplied by the original factory or first-level agent, to ensure the quality of the product from the root.



Suppliers



Strict in-process control

Minimize ESD hazards in production procedure.

- Anti-static cloth, hat, shoes and wristband, workshop equipped with anti-static floor,
- container and cart.

ESD decay solution: anti-static access, worktable, Ion electrostatic eliminator



Strict inspection

- 24h charged aging and filtering to each SoM, and all functional pins will be tested by automatic testing fixture. Forlinx aging house capacity is up to 40 thousand pieces, and we strict control SoM ex fatory pass rate to 100%.
- Strict SoP to components selection, IQC, production and OQC, all procedures comply with ISO9001 system.





RoHS CE FCC

Production Guarantee

- ISO9001 Quality Management System
- Quality supplier channels
- Environmental Simulation Laboratory
- Industrial design



Forlinx embedded products are all implemented in accordance with the most stringent standards and standards from component selection, incoming material inspection to production processing and finished product inspection. For many years, Forlinx Embedded has insisted on running the ISO9001 quality management system, has not compromised on quality, guaranteed 100% pass rate of products, and is responsible for quality and users.



Marketing

- Marketing network
- Partners

Exhibition Marketing

15 exhibitions per year



Electronica China, Elexcon, CMEF, etc.

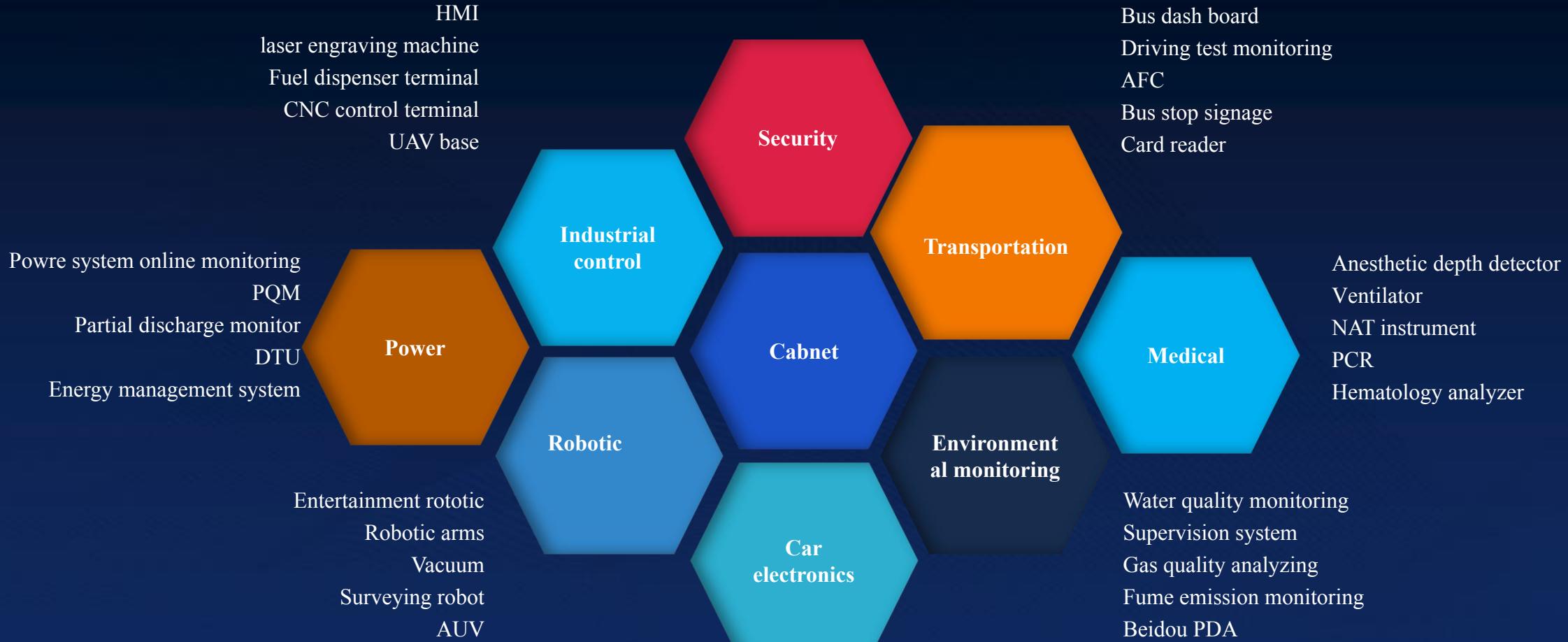
Cooperative partners





Target Application

Empower Manufacturing



Forlinx ARM board applied in Alicloud

| The smart terminal is based on Forlinx ARM board



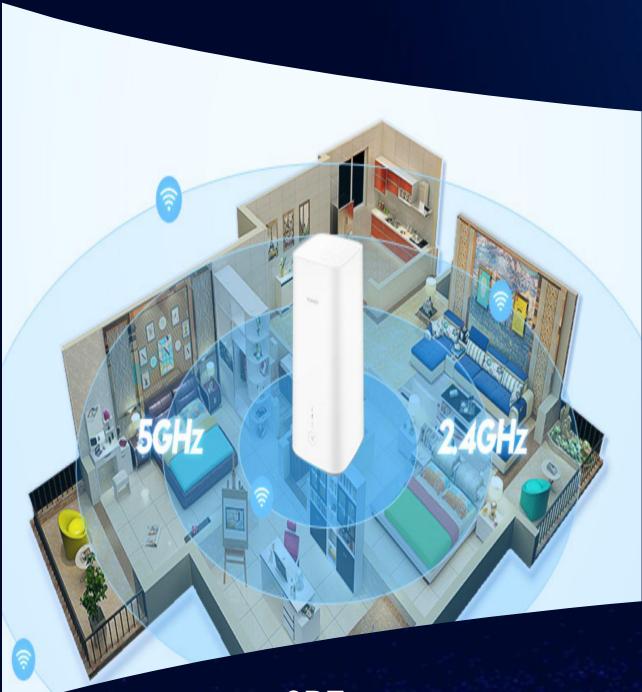
Fresh expresss



Car brushing machine

Platform: Forlinx FET1052-C SoM which is based on NXP i.MX RT1052 SoC.

5G Related Application



CPE



Ambulance



Smart Lamp

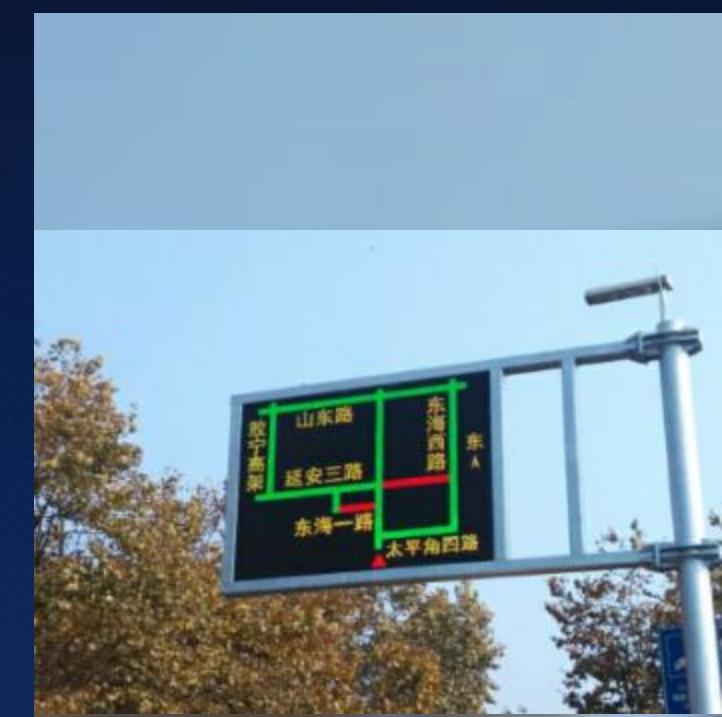


On-board gateway

5G

Smart transportation

- Bus card reader
- Smart parking
- AFC
- LED signage



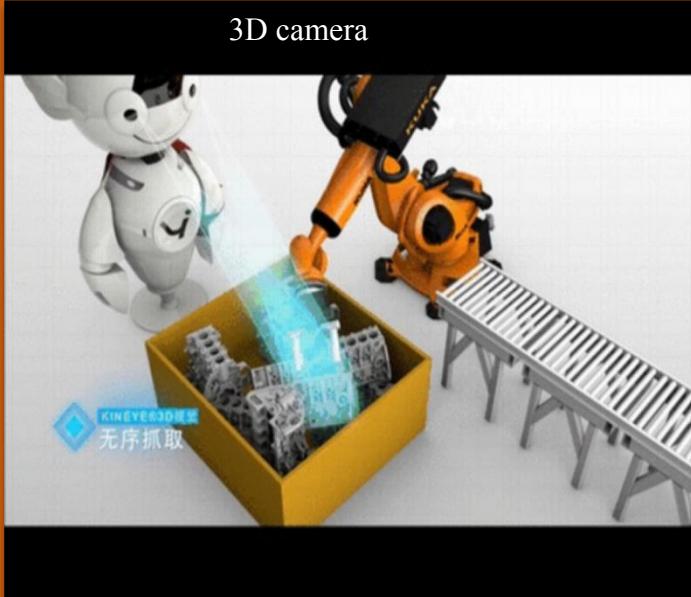
Industrial automation

Industrial control

Sewing machine



3D camera



Wrist band



Forlinx ARM board applied in medical

Eyesight instrument



PCR



Anesthetic depth detector



Ventilator



Nucleic Acid Extraction System



SMART AGRICULTURE



Smart city application



Lavatory



22% 30°C
CPU温度



Trash bin



Smart home

- Constant Temperature
- Constant Humidity
- Constant Oxygen
- Constant Clean
- Constant Quiet



Smart city application



EV charger billing system



Battery Swap Station



Tanker



Identity verification

Smart transportation



ADAS



V2X



ETC

Thanks

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