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To Make Runic Chips Active In Every Corner of The World



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# FOCUS ON ANALOG TECHNOLOGY

专注模拟技术



江苏润石科技有限公司  
Jiangsu Runic Technology Co.,Ltd



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# ABOUT RUNIC

## 关于润石

江苏润石科技有限公司是一家专注于高性能、高品质模拟/混合信号集成电路研发和销售的高科技半导体设计公司。

Runic Technology is a fast-growing, innovative semiconductor design and manufacture company that focus on general purpose and high-performance analog and mixed-signal ICs.



公司成立于  
**2014**年

Founded in 2014



国家鼓励重点集成电路设计企业

Key integrated circuit design enterprise



现有员工  
**200+**, **50%**研发人员

200 Employees, 50% R&D



北京大学校企合作示范单位

Peking University school-enterprise Cooperation

总部：无锡

Headquarter: Wuxi

研发中心：无锡、北京、南京、上海

R&D offices: Wuxi, Beijing, Nanjing, Shanghai

销售办公室：深圳、台北、首尔

Sales offices: Shenzhen, Taipei, Seoul

销售驻点：北京、天津、南京、杭州、郑州、成都、武汉、长沙、合肥、青岛、厦门、宁德、宁波、格勒诺布尔（法国）

Sales services: Beijing, Tianjin, Nanjing, Hangzhou, Zhengzhou, Chengdu, Wuhan, Changsha, Hefei, Qingdao, Xiamen, Ningde, Ningbo, Grenoble (France)

# COMPANY PROFILE

## 公司简介

江苏润石科技有限公司是一家专注于高性能、高品质模拟/混合信号集成电路研发和销售的高科技半导体设计公司。

公司主要产品线分为两类：信号链和电源管理，其中信号链包含运算放大器、比较器、模拟开关、数据转换器、电平转换、电压基准源、逻辑器件；电源管理包含线性稳压器、DC/DC、负载开关、复位及马达驱动。产品广泛用于汽车电子、新能源、工业控制、消费类电子、医疗设备、安防监控、仪器仪表、智能家居以及信创等应用领域。

公司总部位于江苏省无锡市，扎根本土，服务全球。公司依托无锡市良好的集成电路产业环境，整合上下游优势资源，致力于汽车电子、新能源、工业控制、消费类电子、物联传感和医疗电子等领域的模拟芯片产品的研发设计，目前已完成多个门类的芯片设计和开发；同时积极布局新能源汽车领域，全力推进国产车规级模拟芯片的研发和生产，并通过车用IC可靠度 AEC-Q100 认证，以及 ISO26262功能安全管理体系认证。

公司在深圳设立全球销售和技术服务中心，在国内的北京、上海、天津、郑州、苏州、杭州、成都、武汉、合肥、青岛、中国台湾以及海外的韩国首尔、法国格勒诺布尔等地均有驻地人员就近提供全方位的服务。通过几年的耕耘，逐渐形成了较为成熟的国内外市场销售体系和健全完善的售前、售中、售后技术服务体系，拥有众多国内外行业标杆企业客户。同时也建立了快速的响应机制，及时了解客户需求、市场前景和行业趋势。

江苏润石始终坚持“自主创新，品质至上，团结协作，成就客户”为公司的核心价值，不断地推出具备更强竞争力和良好市场前景的模拟/混合信号芯片产品，携手客户共同发展，共创辉煌，让润石芯跳动在电子产品世界的每个角落，矢志成为全球一流的模拟芯片公司！

Runic Technology is a fast-growing, innovative semiconductor design and manufacture company that focus on general purpose and high-performance analog and mixed-signal ICs.

Our product portfolio includes op-amps, comparators, analog switches, data converters, level shifters, little logic ICs, voltage references, LDOs, DC/DCs, load switches, reset ICs. These products are widely used in various industries, such as consumer electronics, computing, communications, industrial, and automotive markets.

In order to deliver high quality and reliable analog ICs, especially automotive grade products, we have been working with manufacturing and assembly facilities that have achieved certifications in the internationally recognized standards of ISO 9001:2015, ISO 14001:2015, and, for automotive products, IATF 16949:2016.

Runic Technology's headquarter is located in Wuxi, China. We have global sales offices in South Korea and Taiwan and distribution partners in Europe and Americas.

Our Goal is to become a world-class analog IC supplier and bring our IC to serve worldwide customers.

# DEVELOPMENT HISTORY

## 发展历程

2014

公司在江苏无锡成立

The company was established in Wuxi, Jiangsu Province

2018

- 与北京大学建立校企合作
- 认定江苏省高新技术企业
- Establish school-enterprise cooperation with Peking University
- Identified as high-tech enterprise in Jiangsu Province

2017

- 通过ISO9001:2015质量管理体系
- 在深圳建立销售中心
- Passed ISO9001:2015 quality management system
- Set up sales center in Shenzhen

2019

认定江苏省信用贯标企业  
Identified as Jiangsu Province credit standard enterprise

2020

在北京建立研发中心  
Set up R&D center in Beijing

2021

在首尔（韩国）设立办事处  
Set up an office in Seoul (South Korea)

2022

- 通过AEC-Q100车规认证
- 在南京建立研发中心
- 在上海建立研发中心
- 设立台北（台湾地区）办事处
- Passed AEC-Q100 vehicle regulation certification
- Set up R&D center in Nanjing
- Set up R&D center in Shanghai
- Set up office in Taipei (Taiwan Region)

2023

- 认定国家高新技术企业
- 在Grenoble（法国）设立办事处
- 通过ISO 26262安全管理体系认证
- Recognized as a national high-tech enterprise
- Set up an office in Grenoble (France)
- Passed the ISO 26262 safety management system certification

# R&D ABILITY

## 研发实力

研发团队现有100余人，公司与北京大学、南京邮电大学签订校企合作协​​议，共同培养芯片研发人才。

The research and development team currently has more than 100 people, and the company has signed school-enterprise cooperation agreements with Peking University and Nanjing University of Posts and Telecommunications to jointly train chip research and development talents.

研发团队均由拥有多年芯片设计公司研发经验的负责人带队。

The R&D team is led by the person in charge with many years of R&D experience in chip design companies.

无锡  
Wuxi

OPA, CMP ,REF

ADC, DAC

接口、开关  
Interface, Switch

北京  
Beijing

电源类  
Power supply class

驱动类  
Driver class

南京  
Nanjing

高速ADC  
High speed ADC

PLL

上海  
Shanghai

IP类  
IP support

SOC/AFE



# PATENT 专利

让润石“芯”跳动在电子产品世界的每个角落

公司产品全部自主研发,拥有百分之百知识产权;  
目前已经拥有38项技术专利（1项国际专利）；40项有效集成电路版图设计。

All of the company's products are independently developed, with 100% intellectual property rights;  
Currently, it has 38 technical patents (1 international patent); 40 effective IC layout designs.

## 38 技术专利 Technical patents

## 40 集成电路版图 Integrated circuit layouts

# HONOR

## 荣誉

国家级专精特新“小巨人”企业  
National specialized new “small giant”  
enterprise



2018第一届我用中国芯最佳创新奖  
2018 China IC Best Innovation Award



2019年度最佳国产电源IC产品奖  
2019 Best Power IC Product Award



2019硬核中国芯最具潜力IC设计企业奖  
2019 China Core Most Potential IC Design  
Company Award



2020年度最佳国产模拟电路芯片产品奖  
2020 Best Analog IC Award



2020中国模拟半导体优秀企业奖  
2020 China Analog Semiconductor Excellent  
Enterprise Award



2021中国IC设计成就奖年度最佳放大器/数据转换器  
2021 China IC Design Achievement Awards  
Amplifier / Data Conversion of the year



2021中国模拟半导体飞跃成就奖优秀企业奖  
2021 China Analog Semiconductor Leap Achi-  
evement Outstanding Business Award



2021硬核中国芯最具潜力IC设计企业奖  
2021 “China Chip” Most Potential IC Design  
Company Award



2021年度最佳信号链芯片产品奖  
2021 Best Signal Chain Product Award



2022中国IC设计成就奖  
年度最佳放大器/数据转换器/隔离器  
2022 China IC Design Achievement Awards  
Amplifier / Data Conversion / Isolator of the year



2022全球电子成就奖年度放大器/数据转换器  
2022 World Electronics Achievement Awards  
Amplifier / Data Conversion of the year



2022硬核中国芯卓越成长表现企业  
2022 Hardcore China Core Excellent Growth  
Performance Enterprise Award



2022中国模拟半导体优秀企业奖  
2022 China Analog Semiconductor Outstanding  
Enterprise Award



2022中国IC风云榜最受机构关注奖  
2022 China IC Top Most Popular Award



2023中国IC设计成就奖年度杰出市场表现奖-汽车电子  
2023 China IC Design Achievement Award  
Outstanding Market performance of the year  
— Automotive Electronics



AspenCore 2023中国IC设计 Fabless100排行榜  
TOP 10 模拟信号链公司  
AspenCore 2023 China IC Design Fabless 100 Ranking  
Top 10 Analog Signal Chain Enterprise

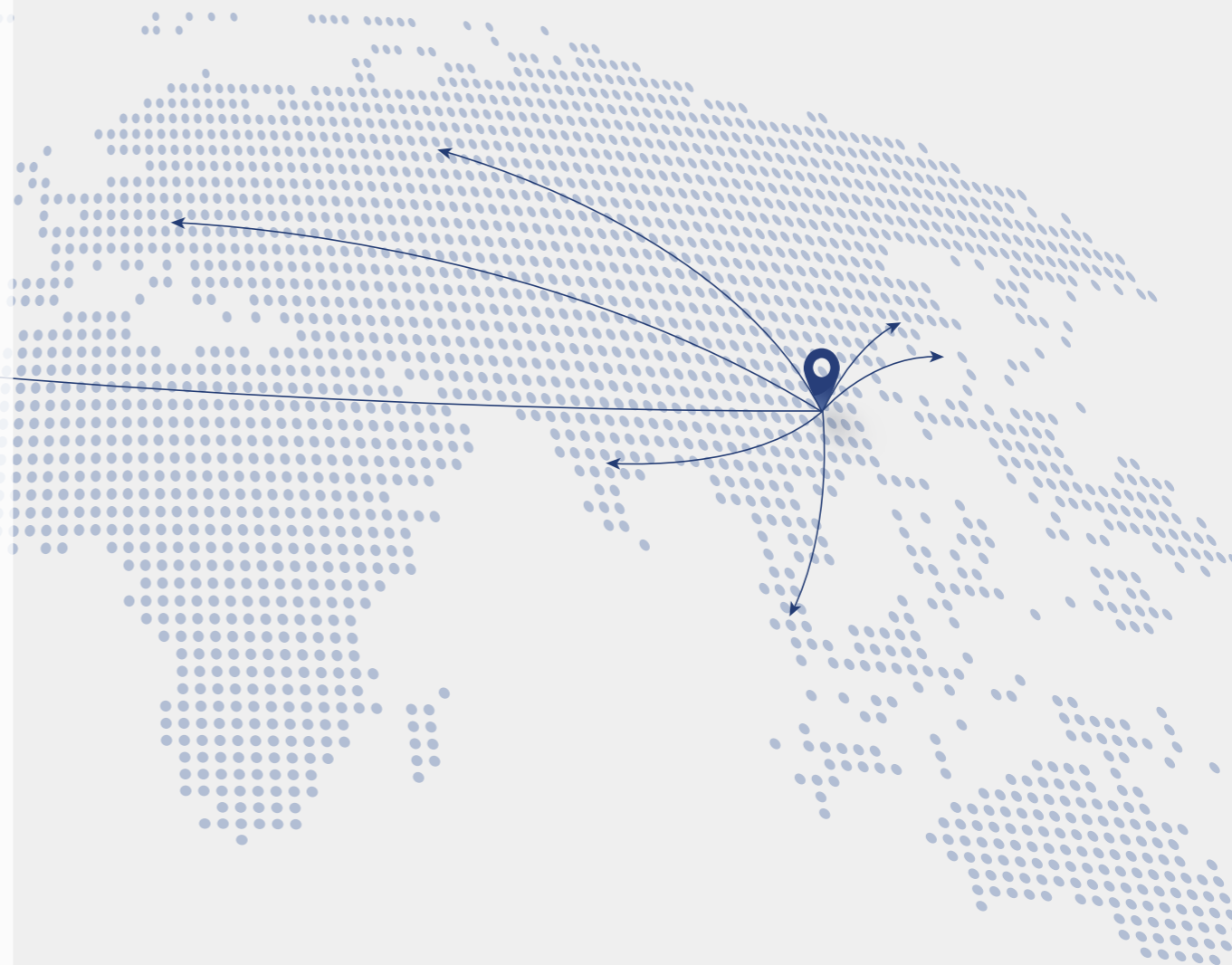
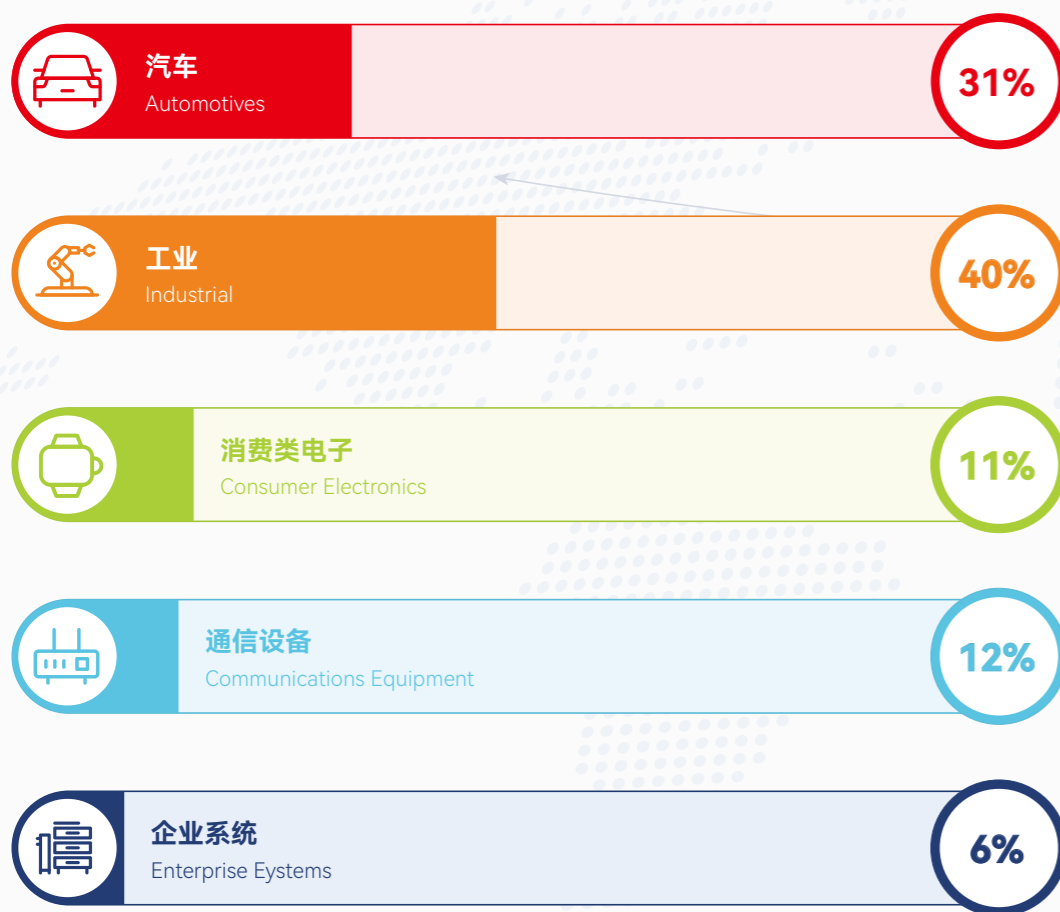


# BUSINESS PROPORTION

## 市场分布

持续投入汽车、工业和新能源。

Continue to invest in automobiles, industry and new energy.



# MAIN CLIENT

## 合作客户

江苏润石通过多年的耕耘，逐渐形成了较为成熟的国内外市场销售体系和健全完善的售前、售中、售后技术支持体系，服务于众多国内外各行业领域合作客户；同时也建立了快速的反应机制，及时了解合作客户需求、市场前景和行业趋势。

RUNIC through years of hard work, it has gradually formed a more mature domestic and foreign market sales system and a sound and perfect pre-sale, sale and after-sales technical support system, serving many domestic and foreign customers in various industries. At the same time, it has also established a rapid response mechanism to timely understand the needs of cooperative customers, market prospects and industry trends.

随着公司的高速发展，越来越多的行业知名品牌开始大批量使用江苏润石产品，包括BYD，汇川，海康威视，三星，HARMAN，TCL等世界知名品牌。

With the rapid development of Jiangsu Runic Technology, more and more well-known brands in the industry starts to use Runic products in large quantities, including BYD, Inovance, Hikvision, Samsung, HARMAN, TCL etc world's famous brands.

### 在汽车、工业等不同领域备受客户认可。

Highly recognized by customers such as automobile and industry fields.



比亚迪  
BYD



弗迪动力  
FinDreams



英搏尔  
Enpower



欣旺达  
Sunwoda



弗迪动力  
FinDreams



# PRODUCTS AND APPLICATIONS

## 产品与应用

公司主要产品线分为两类：信号链和电源管理，其中信号链包含运算放大器、比较器、模拟开关、数据转换器、电平转换、电压基准源、逻辑器件；电源管理包含线性稳压器、DC/DC、负载开关、复位及马达驱动。产品广泛用于汽车电子、新能源、工业控制、消费类电子、医疗设备、安防监控、仪器仪表、智能家居以及信创等应用领域。

The company's main product lines are divided into two categories: Signal chain and power management, where the signal chain includes operational amplifiers, comparators, analog switches, data converters, level converters, voltage reference sources, logic devices; Power management includes linear regulators, DC/DC, load switches, reset, and motor drives. Products are widely used in automotive electronics, new energy, industrial control, consumer electronics, medical equipment, security monitoring, instrumentation, smart home and other applications.

### 润石产品线

Products

#### 电源产品 Power Products

线性稳压器  
Linear Regulator

负载开关  
Load Switch

DC-DC  
DC-DC

电压检测和复位  
Supervisor&Reset ICs

马达驱动  
Motor Driver

#### 电压基准源 Voltage References

并联电压基准源  
Shunt Voltage References

串联电压基准源  
Series Voltage References

#### 逻辑&转换 Logic & Translation

电平转换器  
Level Shifters

逻辑  
Logic Series

#### 数据转换 Data Conversion

模数转换器 — ADC  
Analog-to-Digital Converter - ADC

数模转换器 — DAC  
Digital-to-Analog Converter - DAC

#### 模拟开关 Analog Switches

模拟开关  
Analog Switches

特殊开关系列  
Specialty Switches

#### 运算放大器和比较器 OPA And Comparators

精密运算放大器  
Precision OPA

高速运算放大器  
High-Speed OPA

通用运算放大器  
General OPA

低噪声运算放大器  
Low Noise OPA

纳安功耗运算放大器  
Nano Power OPA

仪表放大器  
Instrumentation Amplifier

微功耗比较器  
Nano Power Comparator

高速比较器  
High Speed Comparator

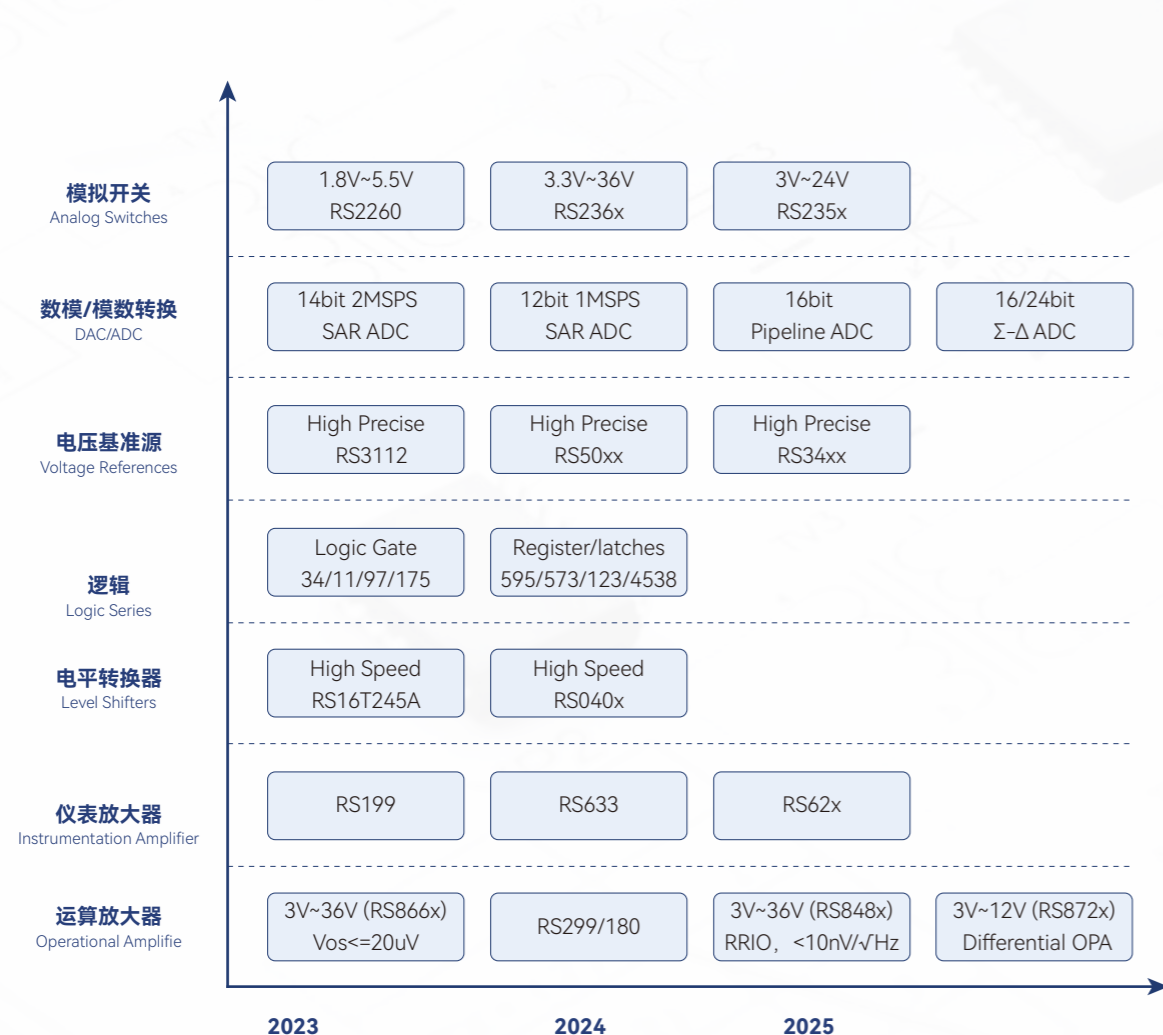
全差分放大器  
Fully Differential Amplifier

# ROADMAP

## 产品规划

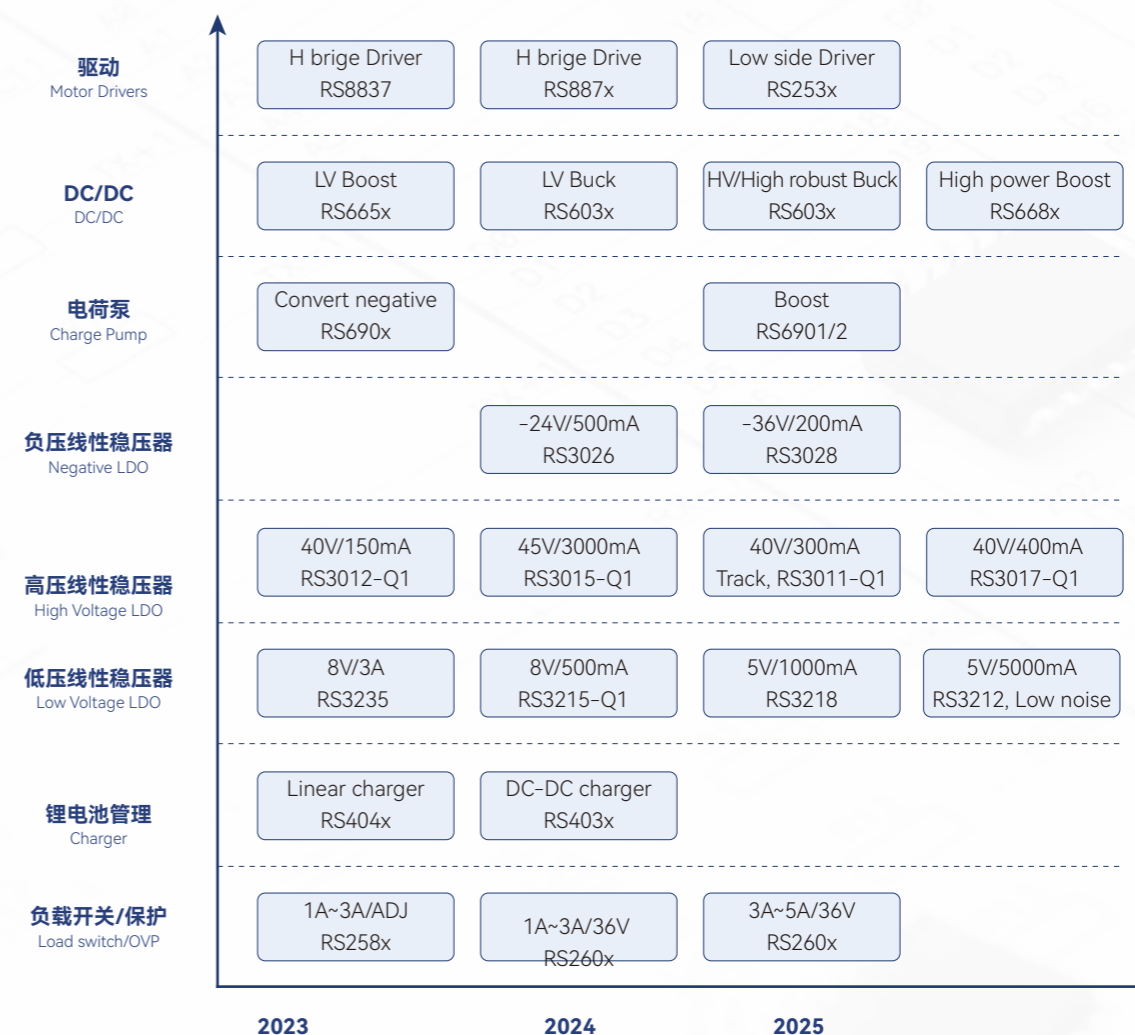
### 产品规划 – 信号链

Roadmap – Signal Chain



### 产品规划 – 电源管理

Roadmap – Power ICs



# PRODUCT APPLICATION

## 产品应用

产品广泛应用于汽车电子、工业控制系统、企业系统、通信设备以及消费类电子等总多领域。

Products are widely used in automotive electronics, industrial control systems, enterprise systems, communication equipment and consumer electronics and other fields.



**汽车电子**  
Automotives



**工业**  
Industrial



**消费类电子**  
Consumer Electronics



**通信设备**  
Communications Equipment



**企业系统**  
Enterprise Eystems

# QUALITY

## 品质质量

在质量管理方面从DQE到SQE、CQE、QS建立质量规范、实施及保持质量管理体系，通过质量管理提升产品的制造设计、测试设计、可靠性验证从而提升产品质量。无论是进行AEC-Q100车规级认证还是导入ISO26262功能安全流程认证体系，不仅仅是满足汽车市场的应用，而是借此搭建起更严格的润石品控体系；是润石不断追求更高品质和质量管理水平，迈上质量管理新台阶的品质之路。

In terms of quality management, establish quality specifications, implement and maintain quality management systems from DQE to SQE, CQE, and QS, and improve product manufacturing design, test design, and reliability verification through quality management to improve product quality. Whether it is AEC-Q100 vehicle-level certification or the introduction of ISO26262 functional safety process certification system, it is not only to meet the application of the automotive market, but also to build a stricter quality control system of Runic. It is Runic's constant pursuit of higher Quality and quality management level, the quality road to a new level of quality management.

### 卓越的车规产品质量 (零缺陷, 零PPM, 零质量事故等等.)

High quality of automotive electronics (zero defect, PPM zero ppm, zero quality spill ,etc)

质量目标：达到与国际一流车规级汽车电子原厂车规电子芯片相同的质量水准。

Quality objective: Achieve the same quality level as the world's fast-class automotive electronics chip.

### 车规电子的品质意识与方法 (零缺陷, 持续改善, 错误预防)

Quality awareness and method of automobile electronics (zero defect, continuous process improvement, error-proofing)

使用国际一流车规级汽车电子原厂的车规产品导入标准[APQP]在润石的车规产品导入上；持续推动封测代工厂做持续改善专案。

Runic implements APQP standard process on automobile products same as international tier 1 automobile product original manufacturer. Advance correct action plans to package contractors.

### 车规电子的质量要求范围

Automotive electronics quality requirement standard

定义润石的车规芯片的生产的指导文件与三温测试标准；建立车规芯片的质量控制计划，测试监控机制等。

Define SOP and set up test standard for tri-temperature testing. Set up control plans and test surveillance plan for automotive grade products.

### 车规电子质量体系 (IATF16949, VDA6.3, AEC-Q100)

Automotive electronics quality system (IATF16949, VDA6.3, AEC-Q100)

选择具有TS16949认证与车规产品量产的封测厂与晶圆厂作为供应商；在润石公司内部引入并拿到ISO26262的汽车功能安全的体系认证；润石的车规芯片产品通过 AEC-Q100 Grade1 + MSL1 的可靠性认证。

Choose wafer foundries with TS16946 certification and automotive qualification standards. Implement and received ISO26262 functional safety standard certification. The Runic Technology automotive grade products pass AEC-Q100 Grade 1 + MSL1 qualification.

# QUALITY SYSTEM

## 质量体系

### 润石体系概况

#### RUNIC Quality System

依据三方审核，质量体系运行良好；  
通过 ISO9001 质量管理体系认证，通过 ISO26262 体系认证。

Passed ISO9001 Quality management system qualification in 2017.  
Passed ISO26262 functional safety certification .



### 供应链体系概况

#### Supplier Chain Quality System

供应商均取得ISO9001， IATF16949， ISO14001， QC080000， ISO45001等认证。

All suppliers passed ISO9001， IATF16949， ISO14001， QC080000， ISO45001 certification.

# AUTOMOTIVE PRODUCT QUALITY DESIGN

## 车规产品质量设计

江苏润石科技车规产品，以设计为质量基石，以两倍行业认证标准为质量保障，以最优的供应链为质量保驾护航，从而打造业内最高质量水准的车规产品。

Robust design is applied in RUNIC automotive product development, to keep good quality performance.



### 冗余设计

#### Green Product

1. 电路和版图设计采用冗余设计，在设计规则基础上加严10%~20%，关键指标加严50%；
2. 封装设计，采用与国际一流车规级汽车电子原厂相同的设计规则，在芯片厚度，打线设计采用冗余设计；
3. 封装BOM，采用于国际一流车规级汽车电子原厂相同的材料。

.....

1. Tighten 10%~20% limit in circuit and layout design, and tighten 50% in critical item.
2. Apply the same assembly design rule (die thickness / wafer saw / wire bonding...) as international first-class automotive electronics manufacturers.
3. Use the same assembly BOM with international first-class automotive electronics manufacturers.

.....

### 高标准可靠性认证体系

#### Strict Reliability Test Standard

可靠性认证，关键指标2倍于AEC-Q100 Grade 1标准，理论设计寿命达30年：

1. Automotive products all pass AEC-Q100 Grade1 & MSL1 certification.
2. And adopt more tighten reliability certification standards than AEC-Q100 to develop RUNIC automotive products to ensure that the theoretical design life is more than 25 years.

HTOL 125°C, 2000hrs

BHAST 130°C/85%RH 264hrs

TCT -65~150°C, 1000C

HTSL 150°C 2000hrs

### 供应链质量体系

#### Supplier Quality System

1. 代工厂完全符合汽车电子生产标准IATF16949要求，并且必须有汽车电子量产经验；
2. 晶圆厂工艺平台通过AEC-Q100 Grade 1 (Group D) 认证；
3. 成熟的车规产品生产控制计划
4. 100% 三温测试

1. All suppliers have been qualified by IATF16949, and have more than 7 years automotive product MP experience for Tier1 automotive IC company.
2. Fab process passed AEC-Q100 group D certification.
3. Rich experience in automotive product control plan , process flow and PFMEA.
4. Guarantee 100% tri-temperature test.

# RUNIC GREEN POLICY

## 润石绿色环保政策

### 绿色产品

#### Green Product

公司推行有害物质管理，材料/产品完全符合RoHS，REACH 等法律法规以及相关客户要求。

Material and product fully meet ROHS ,REACH and other environmental and health protection policy.

ROHS 10项  
ROHS 10 items

REACH SVHC 224项  
REACH SVHC 224 items

HF/VOC/TSCA等  
HF/VOC/TSCA

### 供应商管理

#### Supplier Management

从材料到生产制造过程进行全方面的环保管控，产品符合现行法律法规及润石要求。

RUNIC will check all material in product design , development and production progress, to ensure environmental and health protection policy.

质量协议签订  
Quality agreement

有害物质监控  
Hazardous substance monitoring

工厂环评调查  
Environmental protection survey

质量协MSDS调查议签订  
MSDS/SGS survey

冲突矿产资源调查  
Conflict mineral resources survey

# CONTACT US

## 联系我们

### 联系方式

#### Contact information

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### 社交媒体

#### Social media



微信公众号  
Wechat public account



领英  
Linkedin



商城  
Mall



得捷电子  
Digikey



哔哩哔哩  
bilibili