



Robustel Company Introduction

Make Things Connected



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About Robustel

Robustel is a cellular router & Gateway manufacturer specialising in 5G, 4G/LTE & LPWAN devices. Our products are used in smart cities, transportation, utilities, energy and Industrial IoT and many other applications to deliver robust and reliable connectivity.

Founded in 2010 in Guangzhou, China - Robustel has been concentrating on producing the highest quality IoT products possible.



Reliable IIoT Connectivity
and Computing



Intelligent Equipment
Solution Co-creation Service



Service
Lifecycle Management



EHS Eco IoT Suite

13 years Accumulation	11+ Overseas Office	10,000+ Customers	China Specialized & New 'Little Giant' Key Enterprise
10%+ R&D Investment as a Percentage of Revenue	100+ Countries and Regions	2 million + Global Networking Devices	Guangdong 5G+IIoT (Robustel) Engineering Technology Research Center



Enterprise development history

Industrial IoT Connectivity

- **2010**
 - The company was established in Guangzhou
- **2011**
 - Release of the first hardware M1000
- **2013**
 - Released R3000 industrial 4G router (still on sale today)
 - Release RobustLink Cloud Platform 1.0
- **2015**
 - Established offices in Germany, Australia and Japan
 - Release RobustOS IoT communication operating system
 - Release RobustLink Cloud Platform 2.0

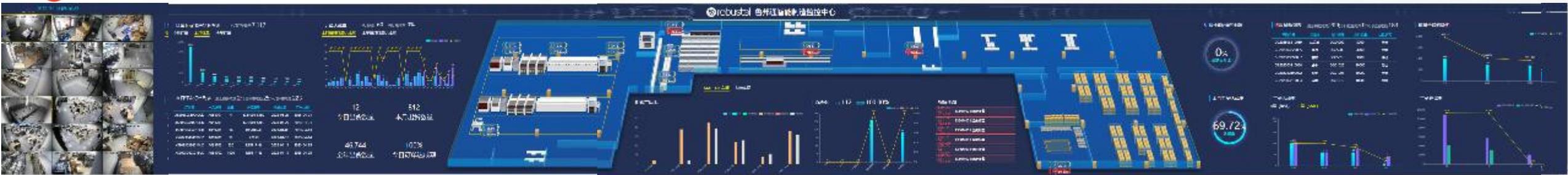
Industrial Internet Exploration

- **2016**
 - Release elevator IoT products
 - The first release of cloud + terminal IoT industry solutions
 - Annual Internet of Things Solution of the Ministry of Industry and Information Technology
- **2017**
 - National high-tech enterprise
- **2018**
 - The Ministry of Industry and Information Technology's annual industrial Internet APP excellent solution
 - Release RobustLink Cloud Platform 3.0
 - Germany Red Dot Product Design Award
 - Self -built 5G+ digital factory
 - Completed the A round of financing

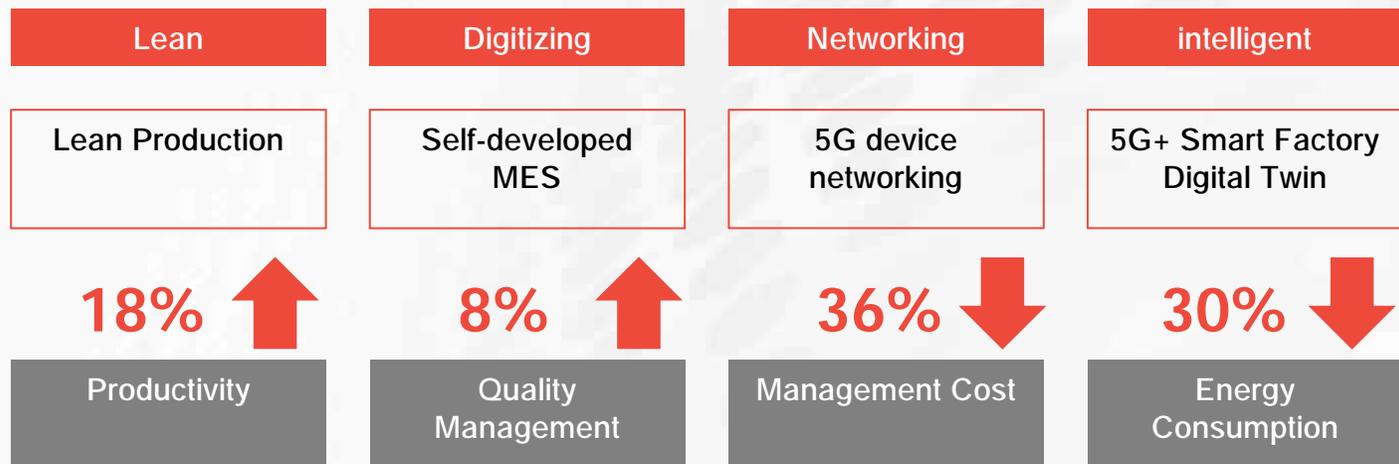
Industrial Digital Intelligence Empowerment

- **2019**
 - Upgrade RobustLink cloud platform to RCMS IoT cloud service
 - Jointly set up "Internet of Things Experiment" with South China University of Technology Professional courses to create school-enterprise cooperation
- **2020**
 - Released the R5020 industrial 5G router
 - Release the elevator IoT multi-source fusion smart sensor
 - Completed the B round of financing
- **2021**
 - Release AIoT+ cloud-side solutions and services for the elevator industry
 - National Specialized Special New Little Giant Enterprise
 - Completed C and C+ rounds of financing
- **2022**
 - Release RobustOS Pro edge computing operating system
 - Release the RobustConnect Smart Object Collaborative Cloud Platform
 - National -level specialized special new key "little giant" enterprise
 - Southern Industry Think Tank Industrial Internet Innovation Index Guangzhou No. 1
 - Listed on the New Third Board, stock code: 873791
 - Robustel's AI application was selected into the list of "National Artificial Intelligence Innovation and Application Pioneering Area "Smart Fusion Hundred Scenes"" by the Ministry of Industry and Information Technology
- **2023**
 - Cooperated with Yiou to release the white paper on smart maintenance and supervision of elevators in China
 - Release Robustel service-oriented manufacturing transformation white paper
 - Organized "5G+Industrial Internet Conference for Small and Medium Manufacturing Enterprises".
 - Selected as one of the key industrial Internet service platforms in Guangzhou, China.
 - Deloitte China's "2022 Guangdong, Hong Kong and Macao Greater Bay Area Hi-Tech High Growth Stars of Tomorrow" & "2022 Guangzhou Hi-Tech High Growth Stars of Tomorrow".

5G+ digital factory - improve product quality and meet customers' flexible manufacturing needs



5G+ Smart Factory Digital Twin Screen



"绿+" 企业名单

序号	名称	序号	名称
63	广州... 网络有限公司	74	广州... 有限公司
64	广州... 网络科技有限公司	75	广州... 有限公司
65	广州... 网络科技有限公司	76	广州... 有限公司
66	广州... 网络科技有限公司	77	广州... 网络科技有限公司



Guangzhou Development Zone Green + Enterprise

5G Smart Manufacturing Innovation Lab

QC080000: 2017

C-TPAT

ISO14001: 2015

ISO45001: 2018

ISO9001: 2015

ISO27001

Based in China - Empowering global enterprises

China
Service
Network

- Guangzhou
- Hongkong
- Dongguan
- Shanghai
- Nanjing
- Ningbo
- Suzhou



- Germany
- Netherlands
- U.K.
- Spain
- Hungary
- Australia
- Malaysia
- Brazil
- Philippine
- Indonesia
- Japan

Global
Service
Network

Qualification and honor

National Certification

- National specialization special new key little giant
- National High-Tech Enterprise
- Member of the "Zhuo Xin Big Data Program" of the China Information and Communications Technology Institute (CICT)



International Recognition

- German Red Dot Product Design Award
- IoT Breakthrough Award
- Utilities and Communications Awards, Global Energy News, UK

Information Security

- Nettitude penetration testing
- Passed SGS penetration test
- Pass third-party security code audit

System Standard

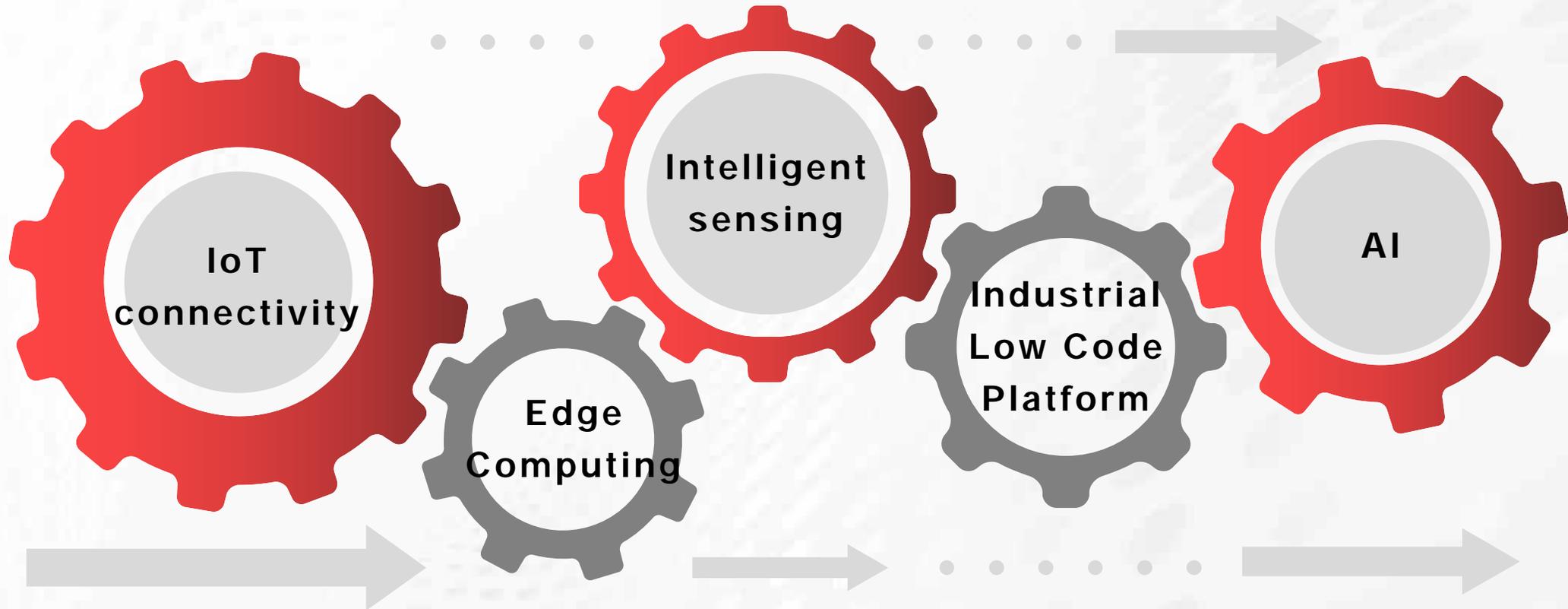
- QC080000: 2017
- C-TPAT
- ISO14001: 2015
- ISO45001: 2018
- ISO9001: 2015
- ISO27001: 2013
- AA level of dual-chemistry integration management system

Product Strength

- MIIT Annual IoT Solution
- MIIT's Annual Industrial Internet APP Excellent Solution
- Achievement Award of Internet of Things Specialized, Specialized and New Chain Strengthening and Chain Complementing Category
- Entered the list of "Wisdom Empowering 100 Scenarios" in the National Artificial Intelligence Innovation and Application Pilot Zone

5 Core Technologies

Realize the integration of "cloud, edge and device"
Empower industry scenarios to be digitized, networked and intelligent





R & D strength

61

Number of invention patent authorizations



128

Number of patent authorizations



106

Number of Computer software registration



Typical Application Scenarios of Robustel Software and Hardware Integrated Solution



Industrial 4.0



Smart Cities



Enterprise



Smart Energy



Smart Transportation



Smart Healthcare



Environmental Protection



Smart Agriculture



Utilities



Smart Retail

Robustel IoT Communication Products: From IoT Connection to 5G+Edge Computing

Various Product

- 5 product lines, 300+ SKUs, covering different technologies, application scenarios, and VOC from LPWAN to 5G, from lite-industrial to industrial-grade.

High-quality

- Products pass quality audits by Japan's NTT Docomo, Fujitsu, Softbank, and multiple Fortune 500 companies.

Market Validated

- Over 2 million pcs shipped worldwide to 100+ countries and regions, with product reliability validated by over 10,000 customers across various industries.

Network Security

- Products have passed rigorous penetration testing by Security Laboratory Nettitude in the UK

5G Router



Industrial Router



Lite-Industrial Router



Edge Computing Gateway



Wireless Data Terminal



LoRaWAN Gateway



Elevator Voice Gateway



Maritime Gateway



RobustOS/RobustOS Pro- self-developed gateway device operating system

robustOS



RobustOS is a customized lightweight system based on the Linux kernel, which is secure and reliable, and is suitable for general IoT products such as Robustel's DTUs and routers.

RobustOS Pro is developed based on the standard Debian Linux system, with better functional extensibility, and is suitable for Robustel's edge computing gateway products.



Secure and Reliable

- Stably running for multiple years
- passing Nettitude's security penetration testing



High Flexibility

- with a modular system design that allows for on-demand development and installation of apps
- supporting over 100 different protocols



User Development

- with SDK documentation provided
- support development languages such as C/C++

200mil+

Connecting
Devices

8 yr+

Running

100+

APP

100+

Countries

Product certification covers a large number of countries around the world
- enabling customer equipment to quickly achieve global deployment



Obtained a variety of product certifications, covering most countries and area in the world

RCMS, a cloud-based gateway device management platform - enabling gateway deployment and network operation and maintenance management



Global distribution, fast and low-cost access

Compatible with all Robustel gateway products

Hosted on Microsoft Azure and Alibaba Cloud

100+

Countries



Zero-touch Provisioning (ZTP)

- Visual and flexible configuration
- Fast initialization
- Cost savings



360-degree Visualization

- Customizable data reporting
- Charts related to network and connection status
- Location tracking
- Historical data tracking



Over-the-Air (OTA)

- Firmware
- Applications
- Configuration files



Rich Control Options

- Reboot
- IO control
- PoE
- LoRaWAN
- Packet Capture
- CLI Access
- System Logs



Mature VPN Network

- Establishing a secure and reliable tunnel based on OPENVPN
- Adaptable to any brand of SIM card
- Providing an integrated client
- Flexible and Scalable

Helping *the global deployment and monitoring* of wind turbine gearboxes in Sweden

Challenge

- Wind turbines are difficult to install and maintain, and the maintenance costs are high. Collect data of wind power components through various sensors for preventive maintenance.
- Customers deployed in different countries around the world

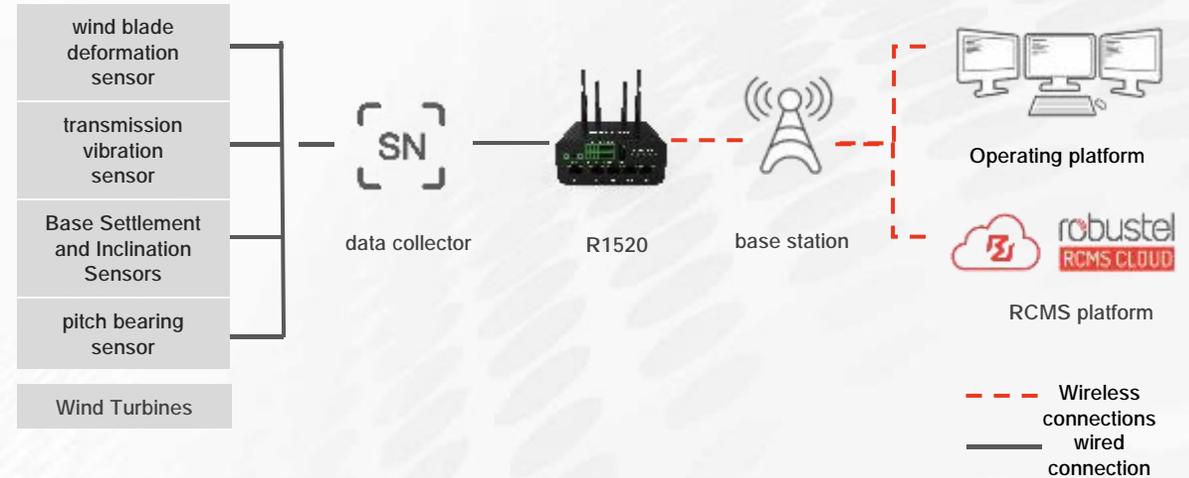


Solution

- R1520 Global of High Reliability
- Remote device management platform - RCMS

- Single SKU global entry
- Getting device status at any time

Application Topology



Benefits

1 set of wind turbine management platform

Visual operation and maintenance management

20000 +
Deploy devices globally

30%+
Operation and maintenance cost



Helping Japan mobile operators and battery manufacturers *build energy storage IoT solution*

Challenge

- The communication interface and communication protocol of each device are different
- The solar battery system needs to be connected to its cloud platform for centralized management
- Remote monitoring of smart home devices is difficult

Benefits

1 set of energy storage IoT platform

Visual operation and maintenance management

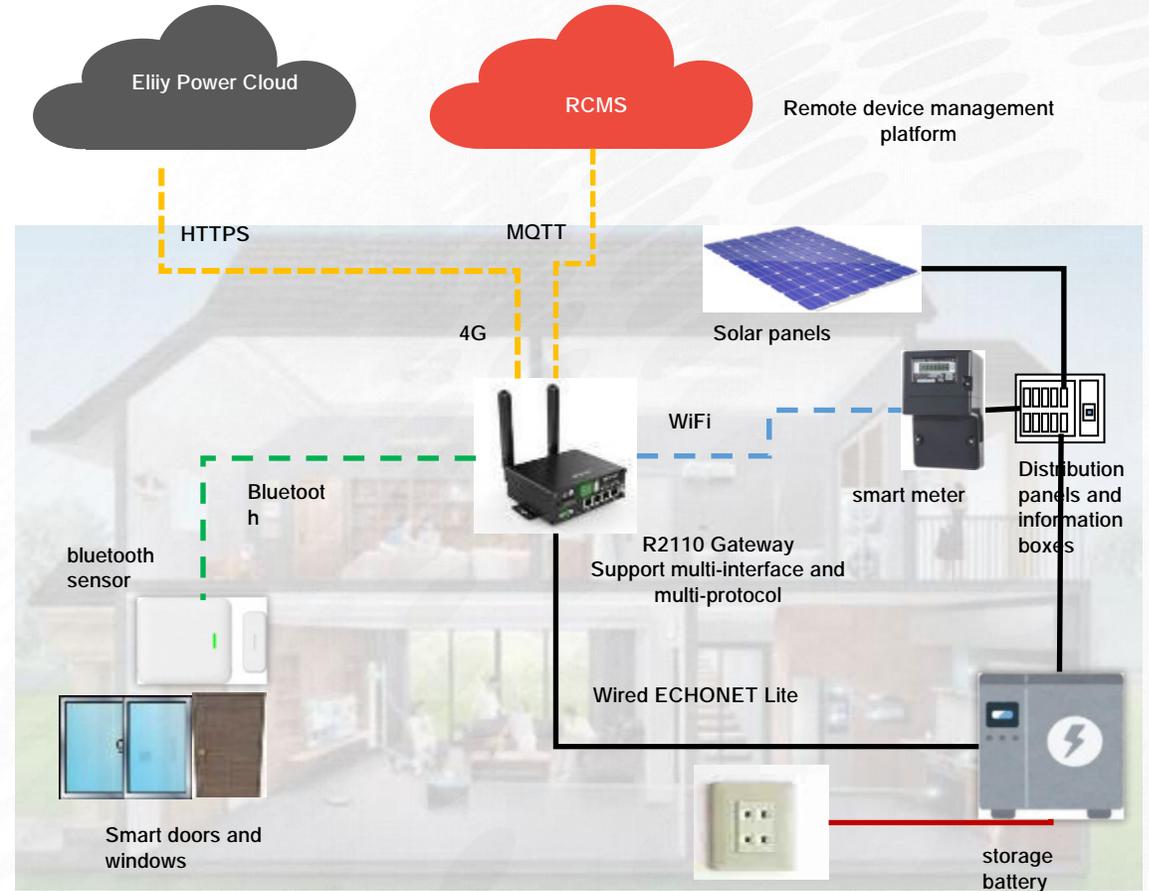
50,000+ Connect Device

7,000+ Docomo branches upgraded

operation and maintenance cost



Solution



Where are Robustel solutions deployed today?

Operator



Elevator



Empower thousands of industries





Make Things Connected



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