Acceleronix

Accelerate IoT

Unleashing IoT potential

## with Acceleronix

Products and services
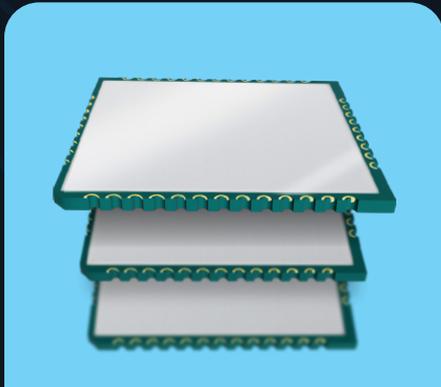
IoT modules + MCU SDK

Enables communications and simplifies coding
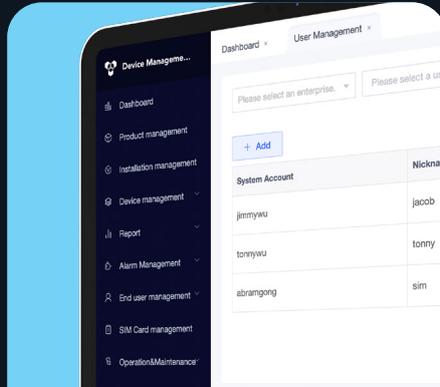
Standard vertical software

Standard vertical software/ app and SDK, supporting customization deployment
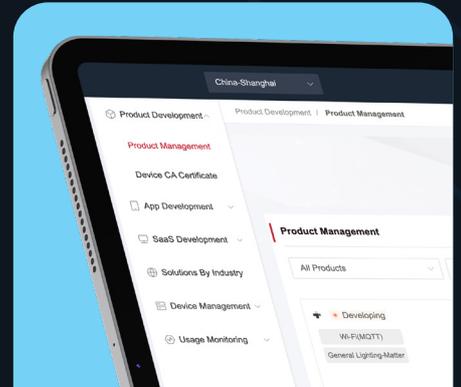
Developer center

A powerful cloud-based developer platform which helps enterprise accelerate integration
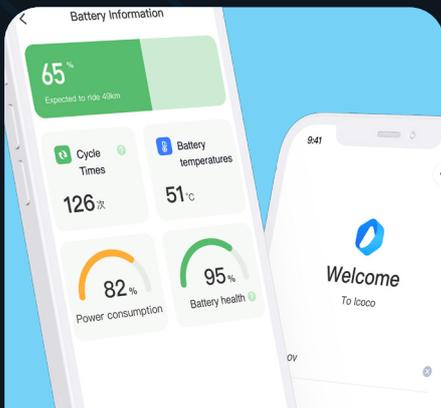
App and app SDK

Standard app, OEM app, and app SDK accelerate project implementation
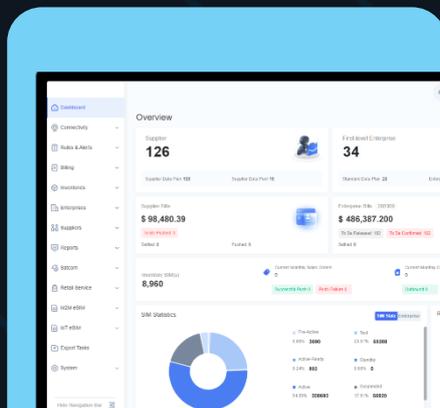
Connectivity as a Service

Activate and manage the connectivity of your IoT devices
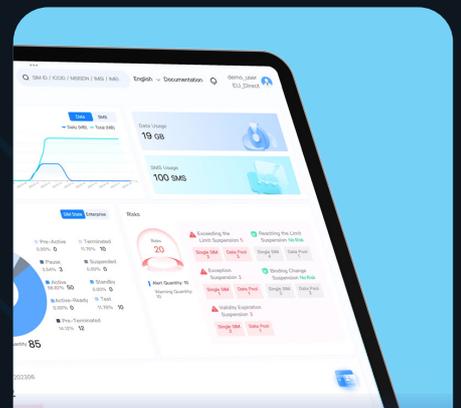
Connectivity Management Platform

Single platform to manage, control and analyze your IoT deployments

Acceleronix | *Accelerate IoT*

Acceleronix IoT platform

As a global IoT solutions and services provider, Acceleronix is committed to providing a full range of products and services to our customers

The consolidation of IoT modules, antennas and connectivity into a single point of provision greatly simplifies product rollout, helping solution providers of any size to undertake mass deployments. Now to further enable our customers' IoT deployments, we have launched an IoT Platform and associated services which enable customers to activate and manage all aspects of IoT products and services from development and connectivity to data management and visualization.

We understand the importance of reducing time to market in this rapidly evolving industry, which is why we offer an extension of our support

services to help our clients achieve their goals. Our platform includes easy-to-use SDKs and tools that are specifically designed for OEM customers who have selected modules or are in the process of selecting their module choice. Our platforms are highly customizable, allowing our customers to tailor solutions to their unique needs.

Additionally, we offer excellent technical support, ensuring that our clients receive the assistance they need to succeed. With Acceleronix, our customers can trust that they are working with a reliable and innovative partner who is committed to helping them achieve their goals.

Our platform includes **easy-to-use SDKs** and tools that are specifically designed for **OEM customers** who have selected modules or are in the process of selecting their module choice.

Acceleronix | *Accelerate IoT*

AcceleronixCore

AcceleronixCore is a leading device management platform (DMP) which is tailored to manage cellular IoT devices, while also capable of managing other wireless devices including Wi-Fi & BLE. AcceleronixCore is a PaaS solution that provides efficient data transmission, secure data storage, and effective data management for multiple terminal devices.

The platform offers standardized communication protocols, including MQTT, MQTTs, LwM2M and CoAP which enables device management in various network environments. Data can be seamlessly exchanged between many devices and applications, enabling remote controlling and data collection capabilities.

It also supports feature definition, message subscription, OTA upgrade, remote debugging, monitoring, operation, maintenance and other services.

This facilitates device management by providing an end-to-end solution for end device + connectivity + platform + application.

Features of the AcceleronixCore include:

- Simplified onboarding of devices using no-code/low-code approaches
- Low-code and ready-to-use SDK for QuecOpen and QuecPython, which simplifies both hardware and software design
- Supporting up to 20K simultaneous OTA/FOTA/SOTA
- Scalable for large IoT deployments
- Best-in-class cost/performance ratio
- Robust, low-latency and high-reliability
- Security and compliance
- Simplified cost structure
- Global customer support

Acceleronix | *Accelerate IoT*

AcceleronixCore (PaaS) architecture

OpenAPI

Standard restAPI   **APP SDK**   **SaaS SDK**

Device access

SDK of device-side, built-in QuecThing	Device authentication	Connection protocol
QuecOpen	Authentication for device	MQTT
QuecPython*	Authentication for product	MQTTs
AT	X.509	LwM2M

Message communication
Message subscription

Device management

Device access and management
Supports full lifecycle management of devices

Device distribution**
Distribution of devices across geographies, platforms, and accounts

TSL model of devices
Definition of product functions in the physical space

Data cache
Supports offline storage capability of device messages (including reporting and sending)

Device topology
Management of the topology of gateways and sub devices

O&M monitoring

OTA upgrade

Online debugging

Log service

Monitoring and diagnosis

In development*

Accelerate IoT

Vertical solutions

Our ready-to-use, advanced platform uses the power of connected devices, data analytics, and computing to optimize operations and deliver actionable insights

Tailored for a wide range of industries, these solutions enable seamless integration and scalability, providing unparalleled real-time visibility of business processes, improved decision-making, and enhanced customer experiences.

The IoT vertical offerings include:

SDK

Set of tools and resources provided by the platform that enable developers to build custom applications and enable integrations

Standard Vertical

Ready to use, supports a wide range of standard IoT applications

Customized Vertical SaaS

White label, developed for custom IoT vertical applications

Tailored for a wide range of industries, these solutions enable seamless integration and scalability

AcceleronixAsset

How Acceleronix enables IoT asset management

IoT solutions for asset management can help provide organizations with accurate, real-time information about asset location and status, improve operational efficiency, security, and cost-effectiveness of managing physical and digital assets.

Central repository for managing and tracking all types of assets:

- Real-time visibility on asset tracking
- Indoor and outdoor location-based services (LBS)
- Geofencing and virtual boundaries

- Configurable dashboards and reporting widgets
- High precision location using industrial grade GNSS module
- Customizable alerts
- Workflow management
- Scalability and flexibility
- User-friendly interface
- Navigation*
- Fleet management*
- API integration with third-party platform*

DEVICE MAP

View the regional distribution of assets, support historical track and replay

GEOFENCE

Create effective geofence for assets, triggering corresponding alarm messages when device is out of or into the geofence

DEVICE MANAGEMENT

Including device basic information, real-time data, historical data, etc.

In development*
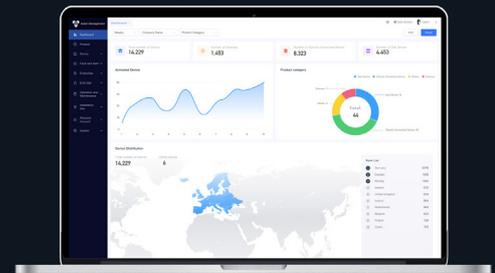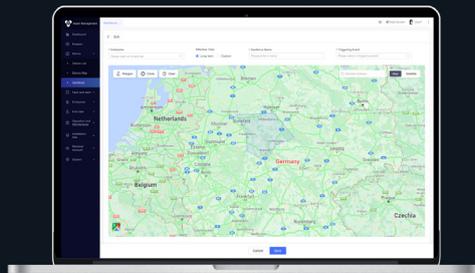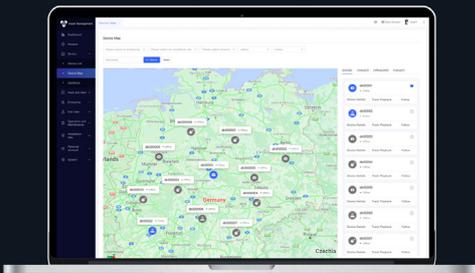
Acceleronix | *Accelerate IoT*

We provide the essential tools to simplify IoT management

Visualization screen

Device inspection

Dashboard

Device inventory

Device management

Data report

Alert management workflow

O&M

Acceleronix | Accelerate IoT
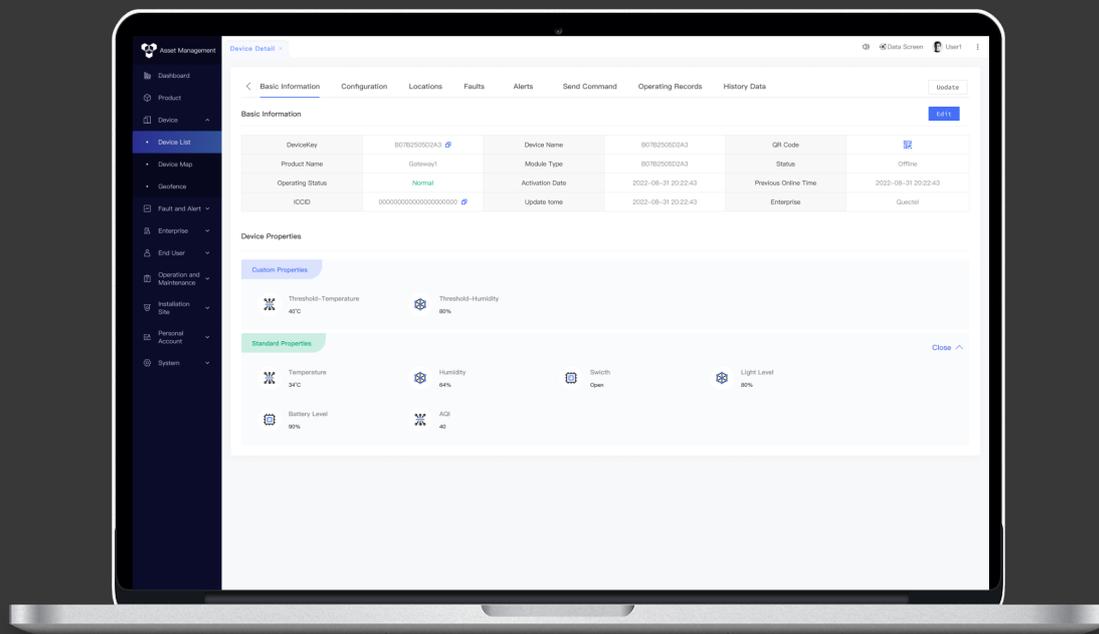
AcceleronixEMS

Next-generation energy management solutions

The inverter is connected to an external data collection dongle, which reports various energy data such as the home energy system's overall power generation, battery level, charge and consumption speed, inverter status, voltage, and current.

This information is transmitted to the cloud platform through MQTT protocol or transparent transmission. Manufacturers can use this data to improve operations and provide customers with better power usage strategies. Home users are able to view and control the device status through a mobile app.

Data collection dongle

PaaS platform

RS485/RS422/RS232

Solar panel

Inverter

Power grid

Energy storage battery

Electrical load

SaaS platform and app

Acceleronix | *Accelerate IoT*
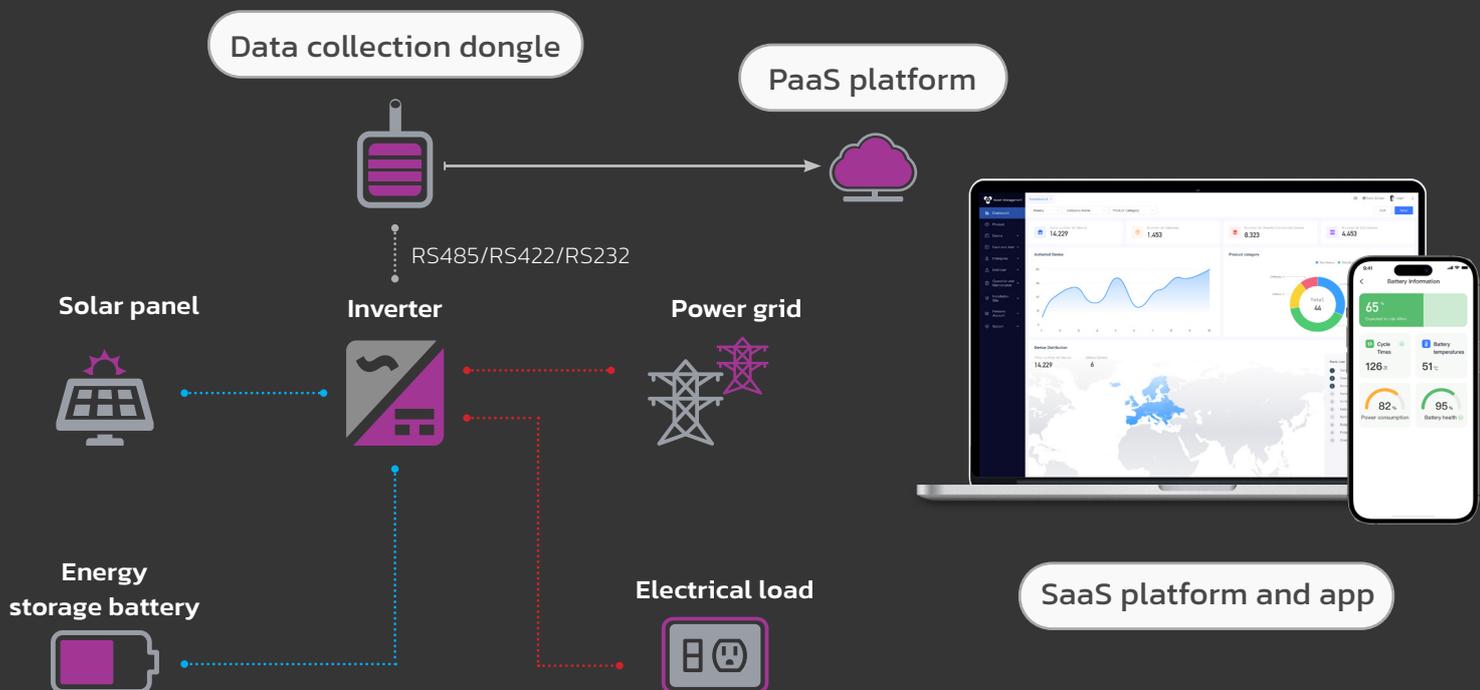
Apps

Wonderfree

Our apps follow through on our commitment to provide tailor-made IoT applications that optimize efficiency, streamline processes and uncover new opportunities.

Features include:

- Seamless integration with all Acceleronix and Quectel modules
- Highly customizable solutions
- Scalability and reliability
- Ongoing support
- High cost/performance ratio

App SDK

- Functional encapsulation can be provided for developers to access the products quickly

Customized app

- White-label app, developed by Acceleronix

Standard app

- Ready-to-use AcceleronixOne app with optional branding, containing various embedded scenarios

Acceleronix | *Accelerate IoT*
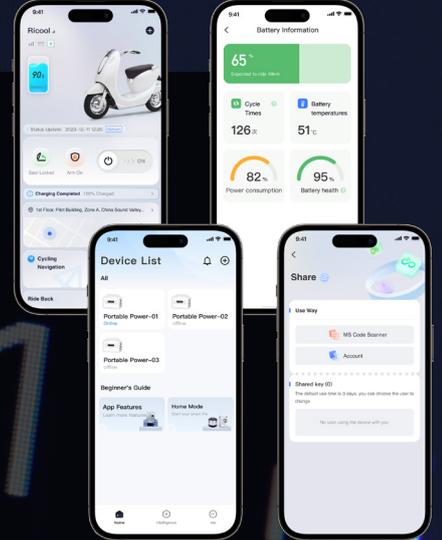
Acceleronix IoT Connectivity Services

Reduce time-to-market and optimize business efficiency by using a single supplier for your complete IoT connected solutions and services

Global connectivity

- Global coverage of over 500 network operators
- Access to 2G, 3G, 4G, 5G, LTE-M and NB-IoT networks
- Support for network functionality e.g. PSM and eDRX

Commercial flexibility

- Tailored commercials to meet your requirements
- Automated tariff optimization, removing bill shock
- Pay-as-you-go, pooling, pre-paid commercial models

Connectivity management

- Single platform to manage, control and analyze your IoT deployments
- Near real-time data to drive decisions
- Full automation of management tasks
- Functionality to support third-party deployments

Customer experience

- Dedicated first- and second-line support
- Single point of contact
- Self-service portal
- End-to-end support – design, build, connect, manage

Connectivity Management Platform

Features and capabilities

- Secure E2E data access
- User administration
- Proactive alerting and trigger management
- Remote SIM provisioning (RSP)
- Enterprise hierarchies
- Programmable APIs
- Self-service tools / service diagnostics
- Reporting – standard and bespoke

Acceleronix | *Accelerate IoT*

Why choose Acceleronix?

⟶≫ Unrivalled simplicity and speed-to-market

⟶≫ Compliant with GDPR, CCPA, ISO27001, ISO27701 and TrustE

⟶≫ Competitive pricing

⟶≫ Global partner of AWS

⟶≫ Global support 24/7

⟶≫ Highly customizable to enable any IoT application

⟶≫ End-to-end solutions including IoT modules, antennas, pre-integrated and tested ODM IoT devices and connectivity as a service

To find out more about any of our products, please contact:
sales@acceleronix.io

≫≫

Acceleronix | *Accelerate IoT*
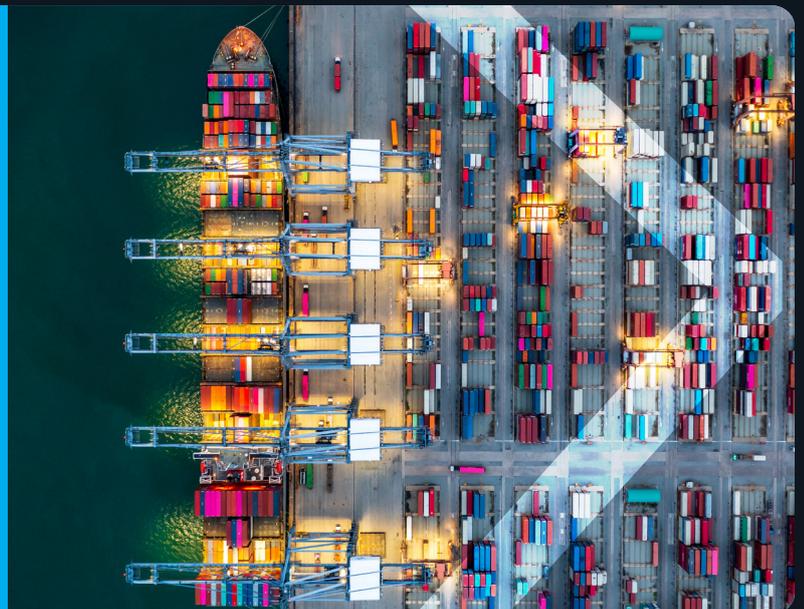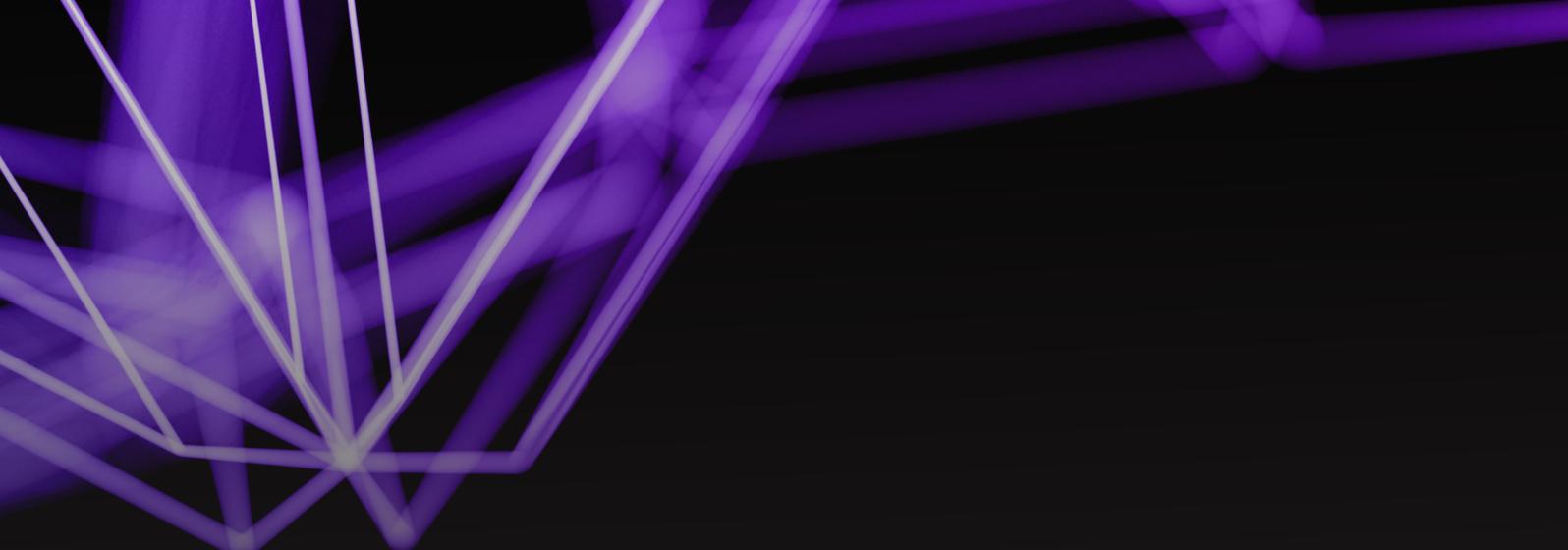
Accelerate IoT

> IoT modules

> Connectivity

> Devices

> Platform & software

Acceleronix
Haaksbergweg 75
Amsterdam
1101VR NL

>> **acceleronix.io**
in **/acceleronix**

Acceleronix

Accelerate IoT