Datasheet

EDGE Insights

Part No:
EDGE Insights

Description:

Cloud-based device management and real-time analytics software platform.

Ordering Information:
EDGE Insight – Cloud platform

Features:

- Device Sensor Management (sample rate, upload rate, threshold triggers)
- Diagnostics (pinpoint if issues reside on hardware, firmware cloud or network)
- Battery Life Configuration and Management
- SIM Price Plan and Data Usage Configuration and Management
- Automatic Secure Device Provisioning
- Device Configuration Management
- Over-the-Air (OTA) Secure Firmware Updates
- Device Security Certificate Management
- Alarms/Alerts

Introduction

Enabling real-time insights and intelligence that drive optimization, cost savings, compliance, and new revenue opportunities for our enterprise customers.

EDGE Insights is your cloud-based software platform that enables flexible, reliable, and efficient gathering of data and lifecycle management of EDGE devices from one dashboard. EDGE Insights provides everything to securely connect and manage your sensors, machines, and devices remotely, removing complexity and allowing your organization to focus on today's business applications.

Features include:

- Device management
- Sensor management
- Data management
- Security management
- Connectivity management

Key Benefits

Manage Entire IoT Deployment
Manage the deployment of your IoT devices throughout their entire lifecycle.

Firmware Over The Air
Coordinate firmware over the air updates to your remote devices.

Flexible Hosting and Storage
Flexible data hosting and storage models.

Multiple Instance Available
Multiple platform deployments options available.

Security Management
Robust protection against evolving cyber threats.
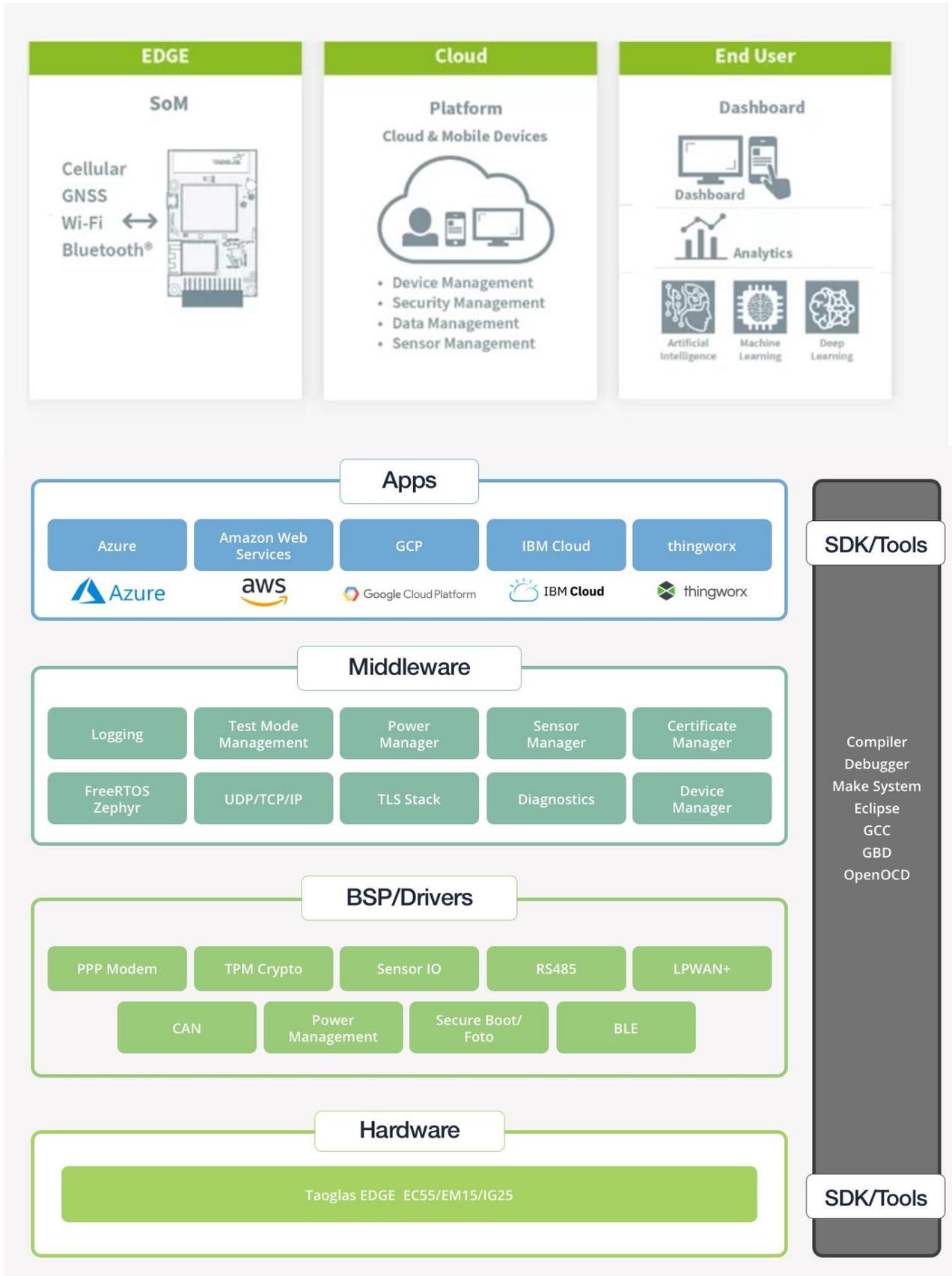
Easy-To-Use API
Easy-to-use API for integration with existing customer applications.

SIM Management
SIM and connectivity management.

Platform Overview and Architecture

EDGE	Cloud	End User
SoM	Platform Cloud & Mobile Devices	Dashboard
Cellular GNSS Wi-Fi ⟷ Bluetooth®	• Device Management • Security Management • Data Management • Sensor Management	Dashboard Analytics Artificial Intelligence · Machine Learning · Deep Learning

Apps

Azure	Amazon Web Services	GCP	IBM Cloud	thingworx
Azure	aws	Google Cloud Platform	IBM Cloud	thingworx

Middleware

Logging	Test Mode Management	Power Manager	Sensor Manager	Certificate Manager
FreeRTOS Zephyr	UDP/TCP/IP	TLS Stack	Diagnostics	Device Manager

BSP/Drivers

PPP Modem	TPM Crypto	Sensor IO	RS485	LPWAN+
CAN	Power Management	Secure Boot/ Foto	BLE	

Hardware

Taoglas EDGE EC55/EM15/IG25

SDK/Tools

Compiler
Debugger
Make System
Eclipse
GCC
GBD
OpenOCD

SDK/Tools

Technical Details

User Management

- Create new users

- Categorize users into partner and dealer categories

- Device Provisioning & Security

- Automatic Device Provisioning

- Device Security Certificate Management

- Bulk provisioning of devices

EDGE Traffic Management

- Optimize edge device data usage directly from the cloud and save traffic costs.

- Adjust data traffic to fit network operators price plans

- Optimize/compress data

Sensor Management/Control

- Configure hardware sensors from the cloud:

- Add/remove new sensors

- Create new custom sensor types and data streams

- Switch sensors on or off

- Change sensor sample frequency

- Configure sensor units

- Control actuators

Data Management Compatibility (Via Cloud APIs)

- Microsoft Azure

- Amazon AWS

EDGE Power/Battery Management

- Configure your devices to sense and upload data exactly when you need and save device battery power

- EDGE Analytics (Fog Compute)

- Reduce latency of decisions

- Solve bandwidth problems

- Potentially reduce network traffic expenses

EDGE Device Diagnostics (Pinpoint)

- Provide Alarms/Alerts/Statistics/Logging

- Capture device and cloud history logs for triage of issues

- Diagnose faults on device hardware and firmware issues

- Diagnose faults network and carrier issues

- Diagnose faults cloud data management issues

EDGE Firmware Updates

- Provide secure system firmware updates

EDGE Device Configuration

- Change data upload interval

- Switch and sensors on or off

Regional Support and International Engineering

Let's make something great together

We are trusted by over 5000+ clients.
Join them by using our services and grow your business.

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