Cascade IoT Gateway

Edge Connectivity, Computing & Security for Enterprise IoT

Overview

The Cascade IoT Gateway is offers a powerful and cost-effective edge network for large-scale, low-power wireless deployments. It provides commercial and enterprise IoT project and product teams with flexible edge computing power, a robust containerized application environment, and a wide variety of wireless device connectivity options.

Combined with our Edge Connect configurable data pipeline and Edge Direct tools for gateway monitoring and management, **the Cascade IoT Gateway is the foundation of an extensible and secure edge data network infrastructure**.

Specifications

Computing & Storage	• 800MHz ARM A7 with 512MB RAM • 8GB of storage
Sensor Interfaces	• Full *Bluetooth*® 5.1 + PA/LNA support • Ethernet • Wi-Fi 802.11a/b/g/n/ac • Wirepas support
WAN Connectivity	• 10/100 Ethernet with PoE 802.3af • Cellular Cat 1 LTE with 2G/3G fallback (worldwide) • Wi-Fi 802.11a/b/g/n/ac
Security	• Supports Bluetooth® Low Energy Secure Connections • Encrypted file system & Secure Boot
Cellular (Optional)	• 2G/3G/LTE • 3FF (micro) SIM slot
Accessory Options	• Wall/Ceiling Bracket • International Power Adapter
Enclosure options	• Custom logo & color available • Outdoor / Weatherproof enclosures
Certifications	FC IC CE △

Key Features & Benefits

Simple, Flexible, Extended Connectivity

Bluetooth® 5.1 . 802.15.4 . Mesh . Wi-Fi . Ethernet

Full range of IoT networking options to support existing devices and future-proof new solutions. Includes APIs to simplify connectivity to common sensors and devices. And, with outbound and inbound amplification we significantly increase connectivity range.

Edge Computing
Run your custom application at the edge for reduced latency, local command and control, and better management of the data being generated by IoT devices & sensors.

Easy Management
Comes with Rigado Edge Direct for fast, secure device orchestration and updating at scale, with tools for performance monitoring & alerts.

Multi-level Security
Robust hardware and software security features from point of manufacture - including automatic updates.
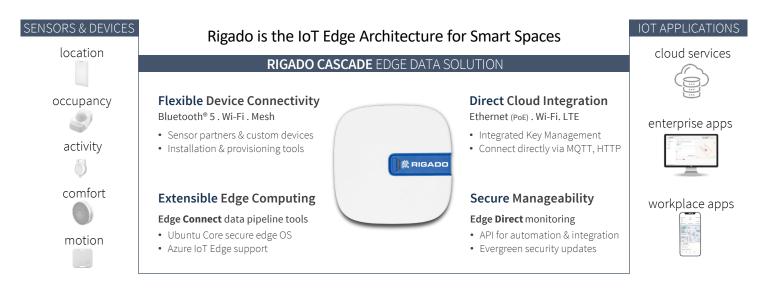
Rigado Edge-as-a-Service

Rigado makes capturing physical and environmental data easy by combining edge hardware with a secure connectivity platform and managed cloud service for monitoring and updating – **offered as an annual subscription.**

SENSORS & DEVICES

- location
- occupancy
- activity
- comfort
- motion

Rigado is the IoT Edge Architecture for Smart Spaces

RIGADO CASCADE EDGE DATA SOLUTION

Flexible Device Connectivity
Bluetooth® 5 . Wi-Fi . Mesh
- Sensor partners & custom devices
- Installation & provisioning tools

Extensible Edge Computing
Edge Connect data pipeline tools
- Ubuntu Core secure edge OS
- Azure IoT Edge support

Direct Cloud Integration
Ethernet (PoE) . Wi-Fi. LTE
- Integrated Key Management
- Connect directly via MQTT, HTTP

Secure Manageability
Edge Direct monitoring
- API for automation & integration
- Evergreen security updates

IOT APPLICATIONS

- cloud services
- enterprise apps
- workplace apps

Edge **Connect**

Secure connectivity and computing platform

Containerized edge environment
Ubuntu Core OS with simple 'snap' application packaging system to make it easier to build and maintain applications at the edge

Secure multi-application environment
Easily and securely install and run multiple enterprise applications on a single gateway

Easy device connectivity
APIs to gather data from common sensors and beacons - requiring no device or protocol expertise

Cloud integration agents
Integrate with major cloud providers like Microsoft Azure IoT and Amazon AWS IoT quickly and easily using code samples

About Rigado

Rigado provides secure and reliable large-scale, low-power wireless network infrastructure for over 300 global partners, with over 6 million Bluetooth® devices deployed. Founded in 2010, Rigado is headquartered in Portland, Oregon with offices in London, UK and Shenzhen, China. Learn more at Rigado.com

Edge **Direct**

Intuitive tools for management and monitoring

Quickly orchestrate updates and deploy builds
Schedule, manage, and apply application and OS updates, and integrates with DevOps systems

Securely provision devices
Gateways are provisioned with secure IDs and encrypted keys, enabling verified field updates

Easily monitor and alert
Monitor, log, and create alerts around key performance metrics such as CPU load and connectivity

Evergreen security updates
Regular security updates are provided by Rigado as new threats or vulnerabilities emerge – making sure devices stay safe in the field

Trusted by Global Leaders & IoT Innovators

Radius Networks · Kimberly-Clark PROFESSIONAL · VERGE SENSE

ONSET · Microsoft Azure · CBRE