Overview

The Cascade IoT Gateway 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  
|                     | A |

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.

**Rigado is the IoT Edge Architecture for Smart Spaces**

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<th>SENSORS &amp; DEVICES</th>
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**RIGADO CASCADE EDGE DATA SOLUTION**

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

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

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

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

**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

**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

**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

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