Cascade IoT Gateway
Edge Connectivity, Computing & Security for Enterprise IoT

Overview
The Cascade IoT Gateway is included as part of the Rigado Edge-as-a-Service solution and 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 |
| Connectivity       | • Full Bluetooth 5 + PA/LNA  
|                    | • 802.15.4  
|                    | • IPv6  
|                    | • Wi-Fi 802.11a/b/g/n/ac  
|                    | • Mesh support |
| Ethernet           | • 10/100 Ethernet with PoE 802.3af |
| Security           | • Secure element hardware module  
|                    | • Encrypted file system & Secure Boot |
| Cellular (Optional) | • Gemalto PLS62-W  
|                   | • 3FF (micro) SIM slot |
| Accessory Options  | • Wall/Ceiling Bracket  
|                   | • International Power Adapter |
| Enclosure options  | • Custom logo & color available  
|                   | • Outdoor / Weatherproof enclosures |
| Certifications     | • FCC  
|                    | • IC  
|                    | • CE  
|                    | • UL |

Key Features & Benefits

Simple, Flexible, Extended Connectivity
Bluetooth 5. 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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<tr>
<th><strong>Flexible Device Connectivity</strong></th>
<th><strong>Direct Cloud Integration</strong></th>
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<tr>
<td>Bluetooth 5, Wi-Fi, Mesh</td>
<td>Ethernet (PoE), Wi-Fi, LTE</td>
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<tr>
<td>• Sensor partners &amp; custom devices</td>
<td>• Integrated Key Management</td>
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<tr>
<td>• Installation &amp; provisioning tools</td>
<td>• Connect directly via MQTT, HTTP</td>
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<tr>
<th><strong>Extensible Edge Computing</strong></th>
<th><strong>Secure Manageability</strong></th>
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<td>Edge Connect data pipeline tools</td>
<td>Edge Direct monitoring</td>
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<td>• Ubuntu Core secure edge OS</td>
<td>• API for automation &amp; integration</td>
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<td>• Azure IoT Edge support</td>
<td>• Evergreen security updates</td>
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**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

**Trusted by Global Leaders & IoT Innovators**

- Radius Networks
- Kimberly-Clark Professional
- Verizon Sense
- ONSET
- Microsoft Azure
- CBRE

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