

## Cascade IoT Gateway

Edge Connectivity, Computing & Security for Commercial IoT





### Overview

The Cascade IoT Gateway is **included as part of our Cascade Edge-as-a-Service solution** and offers a powerful and cost-effective edge network for large-scale, low-power wireless deployments. It provides commercial 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 our 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

<b>Computing &amp; Storage</b>	<ul style="list-style-type: none"> <li>• 800MHz ARM A7 with 512MB RAM</li> <li>• 8GB of storage</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• Full Bluetooth 5 + PA/LNA</li> <li>• 802.15.4</li> <li>• IPv6</li> <li>• Wi-Fi 802.11a/b/g/n/ac</li> <li>• Mesh support</li> </ul>
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>• 10/100 Ethernet with PoE 802.3af</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Secure element hardware module</li> <li>• Encrypted file system &amp; Secure Boot</li> </ul>
<b>Cellular (Optional)</b>	<ul style="list-style-type: none"> <li>• Gemalto PLS62-W</li> <li>• 3FF (micro) SIM slot</li> </ul>
<b>Accessory Options</b>	<ul style="list-style-type: none"> <li>• Wall/Ceiling Bracket</li> <li>• International Power Adapter</li> </ul>
<b>Enclosure options</b>	<ul style="list-style-type: none"> <li>• Custom logo &amp; color available</li> <li>• Outdoor / Weatherproof enclosures</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>•    </li> </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

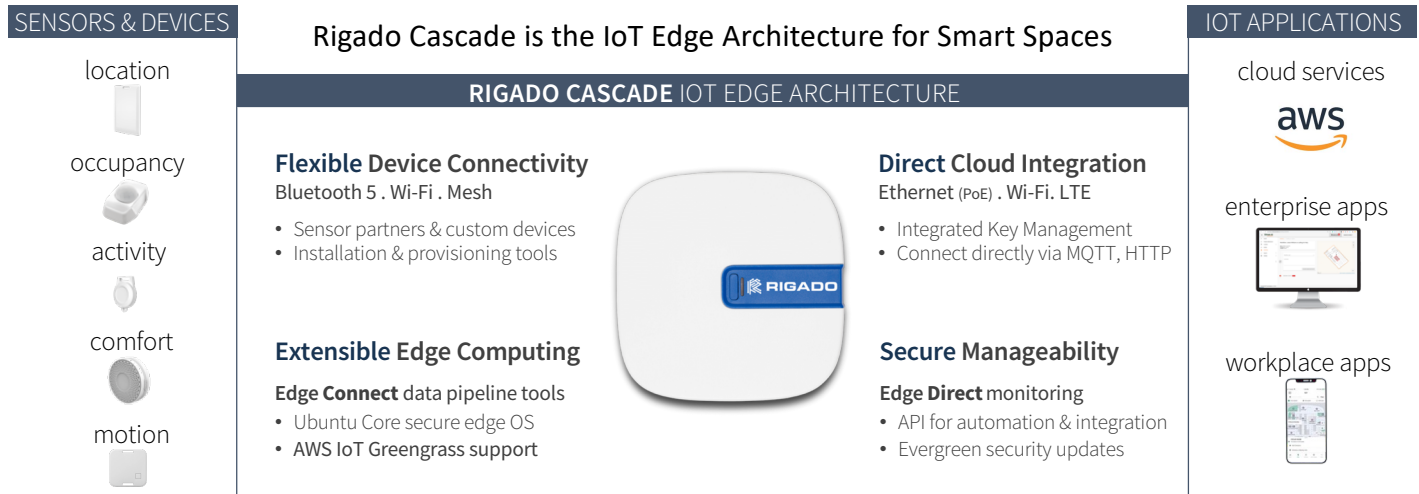
Comes with Rigado Edge Direct for fast, secure device orchestration and updating at scale, with tools for performance monitoring & alerts.

#### Multi-level Security

Robust hardware and software security features from point of manufacture - including automatic updates.

## Cascade Edge-as-a-Service

Cascade 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.**



### 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 AWS IoT Core 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 [www.rigado.com](http://www.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



qualified  
device  
internet of things

aws partner  
network

Advanced  
Technology  
Partner