

Cascade 500 IoT Gateway

Edge Connectivity, Computing & Security for Low-Power Wireless

Overview

Rigado's Cascade 500 IoT Gateway is the hardware component of our Cascade Edge-as-a-Service[™] solution. It gives teams building IoT solutions flexible edge computing power, a robust containerized application environment, and a wide variety of wireless device connectivity options. It also includes advanced hardware, file system and OS security and when combined with our Edge**Protect** managed security service, provides comprehensive and up-to-date edge security.

The Cascade 500 IoT Gateway is **included with Rigado's Cascade Edgeas-a-Service** offering at no additional cost and offers a powerful and cost-effective solution for large-scale low-power wireless deployments. We can even put your logo on it.



Specifications

Computing & Storage	800MHz ARM with 512MB RAM8GB of storage
Wireless Connectivity	 Long Range Bluetooth 5 + PA/LNA 802.15.4 including Zigbee & Thread Wirepas Mesh Wi-Fi 802.11a/b/g/n/ac
Ethernet	• 10/100 Ethernet with PoE 802.3af
Security	 Secure element hardware security module Encrypted file system & Secure Boot
Cellular Options	 Verizon Cat 1 LTE (Q3 2018) Worldwide Cat 1 LTE with 2G/3G Fallback (Q3 2018)
Accessory Options	Wall/Ceiling BracketInternational Power Adapter
Enclosure options	 Custom pad printed logo & color Outdoor / Weatherproof enclosures

Key Features & Benefits

Simple, Flexible, Extended Connectivity

Full range of IoT networking options to support both existing devices and future-proof solutions - including Bluetooth 5, 802.15.4, Mesh, Wi-Fi, Cellular and more. Includes APIs to simplify connectivity to common sensors & devices. With outbound and inbound amplification we significantly increase connectivity range.

Edge Computing

Run your application at the edge for reduced latency, local command and control, and better management of the data being generated by IoT

Easy Management

Comes with Rigado EdgeDirect for fast, secure device orchestration & updating at scale with performance monitoring & alerts included

Multi-level Security

Hardware and software level security features with automatic updates





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Cascade Edge-as-a-Service

Cascade Edge-as-a-service[™] combines Rigado's Cascade 500 IoT Gateways with a secure platform, scalable tools and a managed service – **all offered as a single monthly subscription of \$10/month**.



EdgeConnect compute & connect EdgeDirect orchestrate & update EdgeProtect managed security

Edge**Connect**

Secure connectivity and computing platform with containerized edge OS

Optimized security & performance

Ubuntu Core OS, secure boot & encrypted file system

Containerized edge environment

Snaps, a simple application packaging system to make it easier for developers to build and maintain application containers at the edge

Reliable, remote maintenance and upgrades

Remotely upgradeable with atomic transactional upgrades and roll-back ability. Regular maintenance updates keep technicians out of the field

Secure multi-application environment

Easily and securely add multiple apps and functionalities onto a single gateway

Easy device connectivity

Connect to sensors and beacons using API calls that do not require device or protocol expertise

Start with our IoT Evaluation Kit



- 60 days of free Edge-as-a-Service
- Cascade 500 IoT Gateway
- A Nordic Thingy:52 Sensor with motion, gyro, and more
- Self-guided tutorials
- Device-to-cloud demo code

Available at www.rigado.com

Edge**Direct**

Intuitive tools for orchestration & edge performance

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 and create alerts around key performance metrics such as CPU load and connectivity

Edge**Protect**

Managed service for automatic security updates

Automate core updates

OS updates & fixes to vulnerabilities delivered automatically as soon as they are available

Manage with confidence

Signature authentication to prove that what's running is exactly what developers have published, for greater end user security

About Rigado

Rigado powers Edge Connectivity for more than 300 global IoT customers.

Our gateways, modules and Edge-as-a-Service significantly reduce the time, cost & risk of building & managing IoT solutions.

Rigado is headquartered in Oregon, USA with offices in London, UK and Shenzhen, China. Visit us to learn more at www.rigado.com.

