



OVERVIEW

The BlueMesh 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 BlueMesh IoT Gateway is the foundation of an extensible and secure edge data network infrastructure.

FEATURES AND 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 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.

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

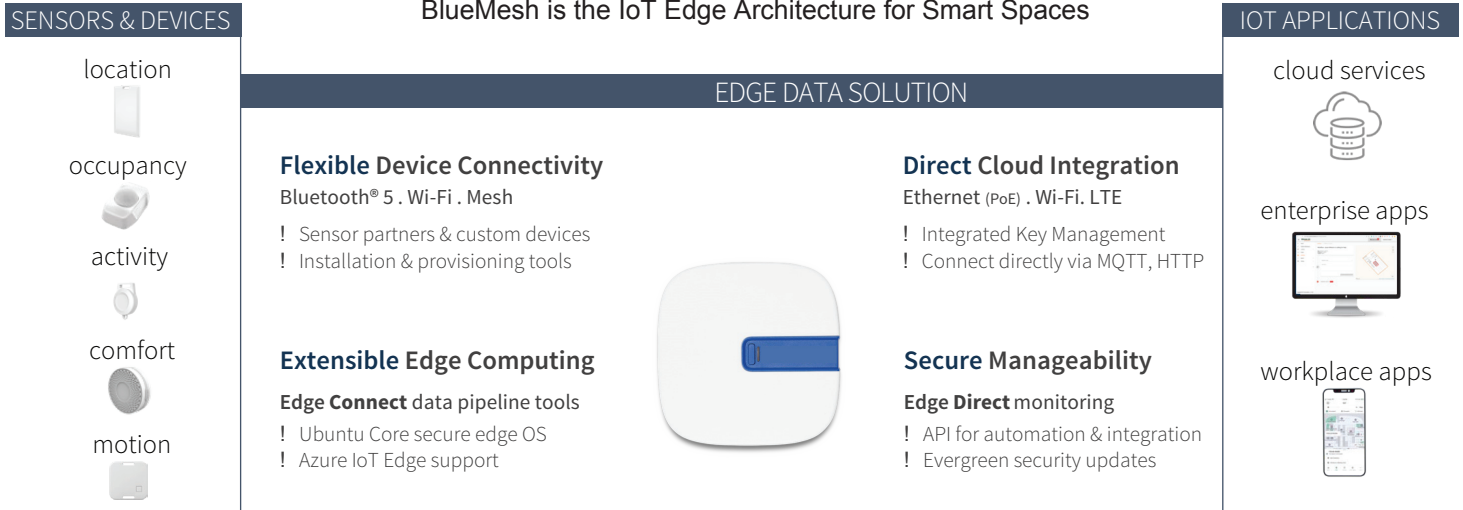
- Options
- Wall/Ceiling Bracket
- International Power Adapter

Enclosure options

- Custom logo & color available
- Outdoor / Weatherproof enclosures

BLUEMESH EDGE-AS-A-SERVICE

The BlueMesh 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 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 BlueMesh as new threats or vulnerabilities emerge – making sure devices stay safe in the field