blueMesh

TECHNICAL DATA

Type	BlueMesh IoT Gateway
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
Processor	800MHz ARM A7
RAM	512MB
Memory	8GB
Security	Supports Bluetooth® Low Energy
	secure connections
	Encrypted file system & secure boot

PRODUCT DESCRIPTION

The BMGW-SGW-101 IoT BlueMesh Gateway provides a powerful and cost-effective edge network solution for large-scale, low-power wireless deployments. This gateway offers commercial and enterprise IoT projects flexible edge computing power, a robust containerized application environment, and reliable diverse wireless connectivity options.

When combined with our Edge Connect configurable data pipeline and Edge Direct gateway monitoring tools, the BlueMesh IoT Gateway serves as the ultimate foundation for a secure and extensible edge data network infrastructure.

ORDERING INFORMATION

Description
BlueMesh IoT Gateway
Part Number
BMGW-SGW-101
Cellular (optional)
2G/3G/LTE
3FF (micro) SIM slot
Accessory (optional)
Wall/ceiling bracket
International power adapter
Enclosure (optional)
Custom logo & color available
Outdoor / weatherproof enclosures

FEATURES

Simple, Flexible, Extended Connectivity
Bluetooth® 5.1 . 802.15.4 . Mesh . Wi-Fi . Ethernet.
A full range of IoT networking options to support both existing devices and future-proof new solutions. Includes APIs for simplified connectivity with common sensors and devices. With outbound and inbound signal amplification, we significantly increase wireless range.

Edge Computing
Run your custom applications at the edge to achieve reduced latency, local command and control, and improved management of data generated by IoT devices & sensors.
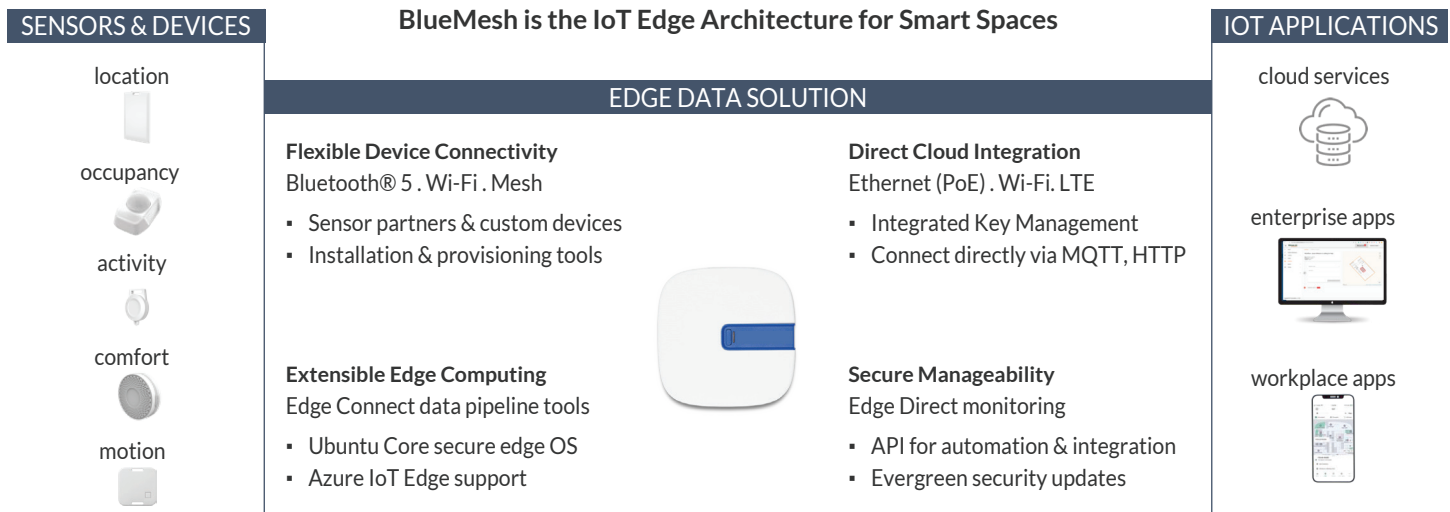
Easy Management
Includes Edge Direct for fast, secure device orchestration and large-scale updates, with performance monitoring tools & alert capabilities.

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

bluemesh

BLUEMESH EDGE-AS-A-SERVICE

The BlueMesh system simplifies physical and environmental data capture by combining edge hardware with a secure connectivity platform and managed cloud service for monitoring, available through an annual subscription.

BlueMesh is the IoT Edge Architecture for Smart Spaces

SENSORS & DEVICES

- location
- occupancy
- activity
- comfort
- motion

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

IOT APPLICATIONS

- cloud services
- enterprise apps
- workplace apps

EDGE CONNECT

Secure connectivity and computing platform

Containerized edge environment
Ubuntu Core OS features a streamlined 'snap' application packaging system, designed to simplify edge application development and maintenance.

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.

WARRANTY

5 years limited warranty.