

Blecon Hub

The Blecon Hub is a dedicated, zero-configuration BLE gateway designed to provide reliable and secure connectivity for IoT devices.



Instant Connectivity

- Works out of the box via Ethernet, PoE, Wi-Fi, or LTE
- Starts scanning for devices and routing data as soon as power is connected

Seamless Device Roaming

- Devices request a connection
- The best Hub responds, even when multiple are in range
- Devices roam between hubs with no reconfiguration required

Designed For The Cloud

- All hubs are coordinated through Blecon's cloud network service, enabling centralised management and monitoring, seamless roaming and flexible data routing.
- Delivers encrypted device data using Webhooks, Amazon S3, SQS

Secure By Design

- TLS 1.3 with ECDH key exchange and ChaCha20 encryption
- Hubs can't see or decrypt device data —only you can

Smart Location Awareness

- Adds location data via cellular-assisted GPS, Wi-Fi, and cell triangulation
- Timestamped events included by default

Works With Other Blecon Hotspots

- Phones, tablets, laptops and industrial devices can also act as [Blecon Hotspots](#) using the Blecon App, fully integrated into the same secure network.

**BLECON ENABLED
HOTSPOTS**



<https://blecon.net/hotspots/blecon-hub-gateway>

Blecon Hub

Technical Specifications	
Network Connectivity	
Ethernet	10/100Mbps with POE support
Wi-Fi	Dual band (2.4GHz and 5GHz) supporting 802.11 a/b/g/n/ac LTE Cat 1 bis, global modem.
Cellular	LTE FDD: B1 2 3 4 5 7 8 12 13 18 19 20 25 26/ 28 66 LTE TDD: B34 38 39 40 41 Up to 10Mbps downlink and 5Mbps uplink data rates 100+ bidirectional links
Number of device connections	
Power	
Power options	Power over Ethernet (44-57V) USB Type-C (5V)
Typical current during operation	200mA @ 5V
Bluetooth	
Tx Power	10dBm
Rx Sensitivity	-94dBm
Dimensions	
LxWxD	95mm x 95mm x 30mm
Operation Conditions	
Operating Temperature	0°C to 55°C
Storage Temperature	-40°C to 85°C
Certifications	
	FCC, CE, IC, BQB, RoHs
Blecon Hub Software and Services	
Operating system	Blecon Linux (Kernel version 6.10)
Software updates	Blecon-managed OTA
Geo-Positioning	Combination of cellular-assisted GPS, visible Wi-Fi networks, and visible cellular networks
Security	
	Blecon Hub and Blecon Cloud: TLS 1.3 Device data: ECDH key exchange with ChaCha20 symmetric encryption

