

L02S-BCN Smart Beacon

Intelligent. Secure. Cloud-Connected.

The L02S-BCN Smart Beacon is an intelligent, cloud-connected device. Co-developed by MOKO SMART and Blecon, it combines the latest beacon hardware with Blecon's Bluetooth cloud connectivity.

Powered By The Blecon Network

- Secure device identity, bi-directional communication, geolocation and time services
- Designed for integration into web infrastructure
- Flexible deployment of network coverage, using Blecon-enabled hotspots without the need for pairing

Next-Generation Beacon Hardware

- Integrates Nordic Semiconductor's nRF54L Series
- Includes sensors for temperature, humidity, pressure, and 3-axis acceleration, all housed in a rugged IP67-rated enclosure

Key Capabilities

- Timestamped logging with cloud synchronisation
- Scan to detect nearby beacons
- Embedded AI/ML for on-device inference

**BLECON ENABLED
HOTSPOTS**



**BUILT FOR DEMANDING
COMMERCIAL +
INDUSTRIAL ENVIRONMENTS**



Industrial Monitoring

Detect vibration or motion anomalies and sync logs automatically

Logistics & Asset Tracking

Monitor temperature, shock, and movement during transit or storage

Healthcare & Equipment Auditing

Track portable devices with secure, timestamped logs

Construction Site Visibility

Know when and where tools or machinery are active or idle

L02S-BCN Technical Specifications

Hardware Specifications		Software Specifications	
System processor	Nordic nRF54L15	Blecon Services	Identity Global Location Global Time 2-way Communication Hotspot Roaming Cloud Network Device Monitoring
Dimensions	69.9*46.7*18mm Φ45*18mm	Hotspot Support	iOS Android Windows MacOS Linux
Color	Grey	Cloud Integrations	AWS S3, SQS, EventBridge Memfault Edge Impulse Webhook (HTTPS/JSON)
Material	PC (polycarbonate)	Blecon Security	Cryptographic Identity Data Encryption
IP Rating	IP67	Bluetooth Scanning	Active and passive scan
Sensors	Temperature and Humidity Barometric pressure Accelerometer Ambient light Hall effect	Customisation	Zephyr RTOS nRF Connect OTA updates
Button	Single button inside enclosure		
LEDs	RGB, externally visible, PWM capable		
Battery	CR2477 Lithium Coin Cell, 1000mAh		
Internal Storage	16Mbit		
Operating temperature:	-20°C to 60°C		
Transmission range	Up to 150m line-of-sight		
Mounting options	Double-sided adhesive, screw, zip-tie		
Certifications	FCC CE RoHS WEEE		
Barometric Pressure Sensor			
Accuracy	±6kPa		
Relative Pressure Accuracy	30kPa-125kPa		
Temperature and Humidity Sensor			
Accuracy	±0.5°C(condition: 0°C - 60°C) ±2.0% RH(condition: 20% - 80% RH)		
Resolution	0.1°C 0.1% RH		

