

Easy-BLE V1.1 Datasheet

Bluetooth Low Energy Beacon & Asset Tracking Module

Product Overview

The **Easy-BLE V1.1** module is a compact, low-power Bluetooth Low Energy (BLE) 5.3-compliant solution designed specifically for beacon and asset tracking applications. It provides seamless connectivity with enhanced privacy and security features, while offering ease of pre-configuration and operation without the need for complex software programming. The small form factor, combined with low power consumption, makes it perfect for a wide range of applications such as industrial, retail, and IoT.

Key Features

Privacy

- **Enhanced Privacy Mode:** Supports resolvable private addresses for secure communication.

Memory

- **4KB eFuse Memory:** Stores advertising payloads, manufacturer IDs, and configuration settings.
- **4KB SRAM:** Dynamically stores advertising data for flexible payload management.

Low Power Consumption

- **Sub-microwatt Operation:** Enables multi-year operation using a tiny battery, making it suitable for remote deployments.
- **Sleep Mode:** Consumes less than 650nA with 24MHz RC oscillator running, extending battery life.

Power Supply

- **Low Leakage:** Operates within a voltage range of 1.1V to 3.6V batteries.
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Beacon and Asset Tracking Applications

Beacon Functionality

- **Retail and Location-Based Services:** The Easy-BLE V1.1 enables retail beacons for promotional notifications, product information and indoor location services.

Asset Tracking

- **Real-Time Location System (RTLS):** Ideal for tracking assets such as equipment, and personnel within facilities. The Easy-BLE V1.1 beacon can be attached to assets to provide real-time updates on their indoor location, significantly reducing loss and improving operational efficiency.
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Technical Specifications

Parameter	Value
Bluetooth Version	BLE 5.3
Operating Voltage	1.1V - 3.6V
Sleep Mode Current	< 650nA
Operating Temperature	-40°C to +60°C (industrial)
Package Type	ABS Enclosure

Typical Applications

- Standalone Retail Beacon Systems
 - Asset Tracking
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