

# BTT02 Beacon Protocol Integration Overview

Non-proprietary system integration overview for BLE/gateway projects.



**BTT02**  
Ultra-thin BLE 6.0 temperature logger  
Temperature + light sensing  
Local and Bluetooth beacon operation

Model	BTT02
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Prepared for	EelinkTech product page and technical resources library

Specifications are subject to change without notice. Confirm final production values and certification documents before printing or regulated deployment.

# Scope

BTT02 supports the EELINK Beacon Protocol. This document describes the high-level integration model for system planning. The full protocol, packet fields and implementation details should be requested from Eelink for qualified integration projects.

## Integration Patterns

Pattern	Description	When to use
APP-only	Phone connects by Bluetooth for configuration and data reading	Small deployments, manual checks, spot audits
Gateway upload	BLE host or gateway receives broadcasts and uploads to server	Warehouses, cold rooms, trucks, continuous monitoring
Eelink host device	Compatible Eelink tracker/gateway receives BLE data	Vehicle or asset tracker deployments requiring combined visibility
Customer platform	BeaconCloud or middleware exports data to external system	Enterprise QA, TMS/WMS integration, customer portals

## Data Concepts

- Device identity: MAC/device ID links records to the physical logger.
- Sensor data: temperature and light readings are captured according to configured intervals.
- Alarm data: temperature, light and low battery events should be treated as exception records.
- Historical data: BTT02 can store up to 100,000 data sets locally for offline periods.
- Export data: BeaconCloud supports PDF and CSV export for historical curves and alarms.

## Gateway Planning Inputs

- Maximum BLE search distance in open space: up to 500 m.
- Actual range should be validated in the target cargo/warehouse environment.
- Broadcast interval and gateway scan policy determine how quickly new records are received.
- High-density environments require naming, filtering and device inventory discipline.

## Security and Operations

- Use password control where devices are handled by multiple operators or partners.
- Define role-based access for changing thresholds and intervals.
- Keep a device inventory with firmware, battery status and deployment history.
- Request the official EELINK Beacon Protocol before building production integrations.

End of document.