

BTT02 Ultra-thin BLE Temperature Logger

Product datasheet for cold chain, warehouse and asset monitoring deployments.



BTT02

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

Model	BTT02
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Specifications are subject to change without notice. Confirm final production values and certification documents before printing or regulated deployment.

Product Overview

BTT02 is an ultra-thin BLE 6.0 temperature data logger with integrated temperature and light sensors. It records data locally and can broadcast data by Bluetooth to a mobile app or BLE gateway, enabling remote upload to the BeaconCloud web platform.

Positioning: Use BTT02 when you need a thin, low-power temperature logger for cartons, pallets, refrigerated trucks, containers, cold rooms and warehouse zones. It is a BLE logger, not a standalone cellular/GPS tracker.

Key Advantages

- 2.4 mm ultra-thin form factor for flat surfaces, packages and constrained cold-chain spaces.
- High-accuracy temperature measurement, -20 C to +60 C with +/- 0.2 C accuracy.
- Built-in light sensor for door opening, exposure and tamper visibility.
- BLE 6.0 broadcast with up to 500 m open-space transmission distance.
- 100,000 data-set local cache for offline continuity.
- 1000 mAh battery with up to 3 years of service life in normal conditions.
- IP67 enclosure for refrigerated logistics and warehouse environments.

System Architecture

Layer	Role
BTT02 device	Collects temperature and light data, stores records locally and broadcasts by BLE.
Mobile app	Connects by Bluetooth for configuration, data reading and local operation.
BLE gateway or compatible Eelink device	Receives BLE broadcasts and uploads records to the server when remote monitoring is required.
BeaconCloud	Provides web and app access for curves, alarms, historical data and PDF/CSV export.

Technical Specifications

Category	Specification
Product type	Ultra-thin BLE temperature logger / Bluetooth beacon
Model	BTT02
Chipset	nRF54L10
Communication	BLE 6.0 broadcast and Bluetooth connection
Battery voltage	3 VDC
Battery capacity	1000 mAh
Battery life	Up to 3 years in normal conditions; low-temperature conditions may reduce service life
Dimensions	63(L) x 103.5(W) x 2.4(H) mm

Category	Specification
Weight	Approx. 20 g according to the BTT02 user manual
Temperature range	-20 C to +60 C
Temperature accuracy	+/- 0.2 C
Light sensing	0.01 lux to 655 lux according to the BTT02 user manual
Transmission distance	Up to 500 m in open space
Local storage	100,000 data sets
Button and indicator	1 START button; 1 red LED indicator
Ingress protection	IP67 waterproof and dustproof enclosure
Alarms	Temperature alarm, light alarm, low battery alarm
Software	BeaconCloud APP and Beacon Cloud web platform
Data export	Historical curves with PDF / CSV export through BeaconCloud
Protocol	EELINK Beacon Protocol

Recommended Applications

- Pharmaceutical and vaccine cold-chain monitoring.
- Food, seafood, dairy, fruit and vegetable shipment logging.
- Refrigerated truck, reefer container and cold room temperature visibility.
- Warehouse temperature zone monitoring and door-exposure detection.
- Pallet-level and carton-level monitoring where a slim logger is required.

Ordering and Integration Notes

- Confirm final sampling interval, storage interval and BLE broadcasting interval before batch deployment.
- For remote monitoring, plan BLE gateway coverage and data upload cadence.
- For regulated shipments, validate placement, alarm thresholds and reporting workflow before production use.
- Request the full EELINK Beacon Protocol from Eelink sales for system integration projects.

End of document.