

# BTT02 Cold Chain Deployment Guide

Practical deployment recommendations for temperature-controlled logistics.



**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.

# Deployment Objective

BTT02 provides a thin, wireless temperature and light record at shipment, pallet, package, vehicle or warehouse zone level. A reliable deployment defines what condition is being measured, where the logger is placed and how exceptions are handled.

## Typical Placement

Scenario	Recommended placement	Notes
Carton or parcel	Inside the package near product mass	Avoid direct contact with gel packs unless measuring pack contact temperature
Pallet	Between cases near thermal risk point	Use multiple loggers for mixed loads or tall pallets
Refrigerated truck	Cargo zone, not directly against evaporator or wall	Use gateway coverage testing if remote upload is required
Warehouse cold room	Representative shelf or rack zone	Map hot/cold spots before choosing permanent positions
Door exposure monitoring	Place so the light sensor sees door/package light	Set light threshold after field validation

## Alarm Strategy

- Set temperature limits according to product stability, customer SOP or regulated lane requirements.
- Use light alarms for door opening, box opening or possible tamper events.
- Use low battery alarms to prevent failed deployments.
- Define escalation: operator notice, quality review, customer alert, or rejected shipment workflow.

## Gateway and Upload Planning

- Open-space BLE distance can reach up to 500 m, but real coverage depends on cargo, metal, water content, insulation and gateway position.
- Test gateway placement with loaded cargo, not only in an empty warehouse or truck.
- For mobile shipments, decide whether upload is needed during transit or at checkpoints only.
- Keep local data enabled so records continue when the logger is outside gateway range.

## Validation Checklist

Check	Pass criteria
Device ID recorded	Device ID/MAC is linked to shipment, pallet or zone
Clock synchronized	Device time matches SOP reference time
Thresholds set	Temperature and light limits match deployment requirement
First reading verified	APP or web confirms reasonable reading before release

Check	Pass criteria
Gateway tested	Remote upload confirmed in loaded condition if required
Report path defined	PDF/CSV export location and owner are defined

**For compliance-sensitive lanes, validate the complete workflow - device placement, alarms, data export and exception handling - before using reports for release decisions.**

End of document.