Cold Chain Logistics & Transportation

End-to-End Shipment Visibility with Critical Temperature Control

Protect your temperature regulation-sensitive shipments with modern cold chain monitoring tools. Track temperature, location, door status, and more—live and in real time—across trucks, containers, and last-mile deliveries.

Where Our Cold Chain Solutions Deliver Maximum Impact

Our technology supports **temperature-sensitive logistics** across healthcare, food, chemical, and industrial sectors. From vaccines and blood components to perishable foods and specialty chemicals, each use case is backed by **precise monitoring, real-time alerts, and complete transport visibility**.

Pharmaceuticals & Healthcare

- Vaccine distribution and cold-chain transport
- Biologics, insulin, oncology drugs & specialty medicine logistics
- API and bulk drug ingredient movement
- Clinical trial sample transport
- Diagnostic kits, reagents & consumables transport

Food & Perishable Products

- Dairy logistics: milk, yogurt, cheese, ice cream
- Meat, poultry & seafood transport
- Fruits & vegetables cold-chain distribution
- Bakery, confectionery & chocolate transport
- Frozen food and ready-to-eat product logistics

Chemical & Industrial

- Temperature-controlled specialty chemical transport
- Adhesives, resins & industrial compounds
- Lab-grade chemical movement
- Hazardous & sensitive material logistics

Logistics, 3PL & Distribution

- Reefer truck fleet monitoring
- Warehouse-to-retail replenishment
- Multimodal cold-chain shipments (air/road/sea)
- Containerized cold-chain export movements
- Last-mile cold delivery operations

Biotechnology & Research

- DNA/RNA sample transportation
- Life-science reagent logistics
- Cell culture & sensitive biological material movement
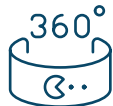- Inter-lab scientific sample transfers

Why Monitoring Is Mandatory?

Protecting Every Shipment. Every Mile. Every Moment.

- Maintaining the integrity of **temperature-sensitive products** during transit is critical for industries like **pharmaceuticals, healthcare, food, biotech, and chemicals**.

- Advanced **data loggers** and **real-time monitoring systems** ensure an **unbroken cold chain** by continuously tracking environmental conditions, providing **instant alerts**, and generating **audit-ready compliance records**.

Product Integrity	Regulatory Compliance	Continuous Visibility	Full Traceability	Loss Prevention

Data Loggers Deployment

Strategic Placement for Complete Cold Chain Visibility

- **Seamless integration across the entire cold chain** — deployed in refrigerated trucks, cold rooms, freezers, last-mile boxes, and insulated shippers to ensure uninterrupted temperature visibility from dispatch to delivery.

- **Reliable, real-time monitoring with instant alerts** — providing continuous data capture, excursion notifications, and audit-ready reports to maintain compliance and protect product quality throughout logistics operations.
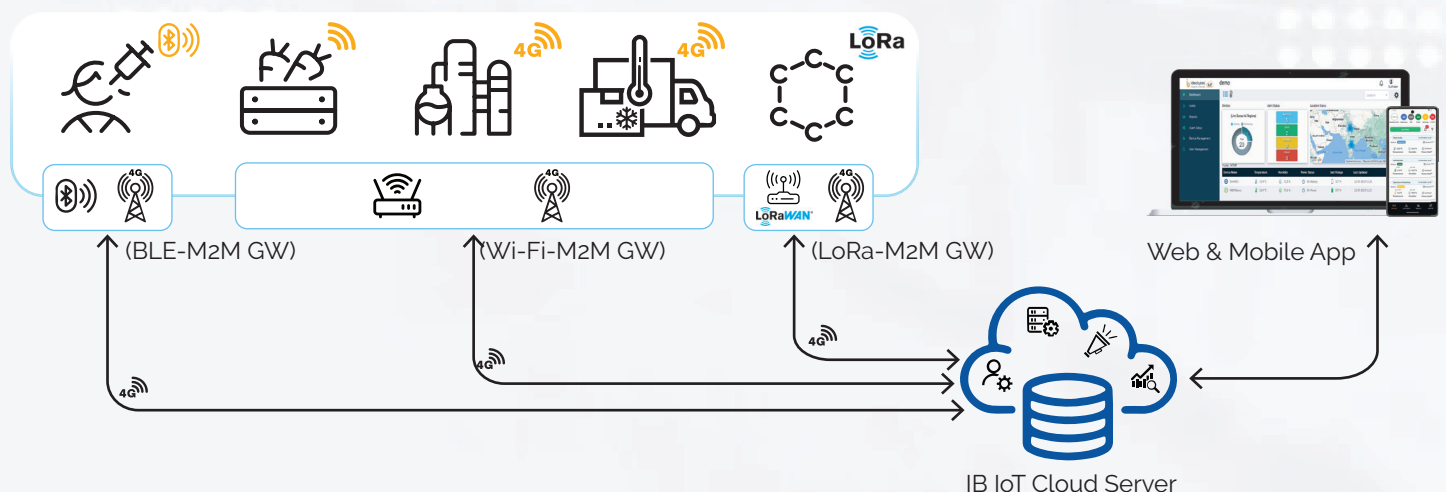
Sensor Probes	Data Loggers	Gateways

Solution Architecture

(BLE-M2M GW)   (Wi-Fi-M2M GW)   (LoRa-M2M GW)   Web & Mobile App

IB IoT Cloud Server

Comprehensive Device Compatibility Across All Monitoring Needs

Our platform supports a wide range of **temperature, humidity, and multi-parameter monitoring devices**, ensuring seamless integration for hospitals, blood banks, laboratories, and cold-chain logistics.

https://www.ideabytesiot.com/products

Model No	Gateway	Temperature Range	Humitidy Range
IBI-WTH120/ IBI-MTH120	Wi-Fi/4G	-40°C to +120°C	2 to 99% RH
IBI-WTH50/ IBI-MTH50	Wi-Fi/4G	0°C to +50°C	0 to 100% RH
IBI-WTH70/ IBI-MTH70	Wi-Fi/4G	-30°C to +70°C	0% to 95% RH
IBI-MTH120-CN	4G/GPS	Upto +120°C	0% to 100% RH
IBI-MT120-CN	4G/GPS	Upto +120°C	-
IBI-WT350/ IBI-MT350	Wi-Fi/4G	-200°C to +350°C	-
IBI-WT120/ IBI-MT120	Wi-Fi/4G	-40°C to +120°C	-
IBI-WTD120/ IBI-MTD120	Wi-Fi/4G	-40°C to +120°C	-

Hardware Features*

- 1.3" 128×64 OLED Monochrome Display
- 4000 mAh Li-Ion Battery (Up to 20 hrs backup)
- Plug & Play, Wall-Mountable Design
- Configurable Data Polling
- Configurable Internal Data Storage
- 5V/1A DC Power Input
- IP64-Rated Enclosure

Software Features*

- Dashboard, Map & List Views
- Analytics, Device & User Management
- Alerts & Notifications
- 21 CFR Part 11 Compliant Reports (PDF)
- MKT Value, Audit Trail, Alarm Logs & Trend Graphs
- Configurable Data Polling
- Optional SMS Alerts
- Web & Mobile Apps (iOS & Android)

*Features and specifications vary according to selected model

Ideabytes Software India Pvt Ltd.

11th floor, Unit 1, Kapil Towers, Financial District, Nanakramguda, Hyderabad-500032, Telangana, India
Phone: +91 888 583 5959 | TollFree: 1800 571 5566 | email: sales@ideabytesiot.com | www.ideabytesiot.com