Food & Beverage / Agrifood

Ensuring Temperature Regulation, Quality & Compliance Across the Supply Chain

Our monitoring solutions ensure accurate temperature and humidity control in line with HACCP and FSSAI standards. Maintain compliant conditions across processing, storage, and logistics with real-time alerts and reliable reporting to protect product quality and safety.

Comprehensive Monitoring Across Processing, Storage, and Distribution

We enable reliable environmental control across **processing, cold storage, and logistics, ensuring precise temperature regulation** aligned with **HACCP and FSSAI standards**. Our solutions **safeguard product quality**, reduce **spoilage**, and maintain consistent **food safety** across the entire agrifood supply chain.

Food Processing & Production Lines

- Precise temperature regulation during mixing, cooking, cooling.
- Compliance with HACCP & FSSAI critical control points.
- Real-time alerts to prevent batch spoilage.
- Ensures consistent product quality and safety.

Cold Storage & Warehousing

- Continuous monitoring of chilled, frozen, and ambient zones.
- Prevents deviations that cause spoilage or microbial growth.
- Automated reports for regulatory audits.
- Protects inventory value through early warning notifications.

Dairy, Beverage & Fermentation Plants

- Accurate regulation during pasteurization, fermentation, cooling.
- Prevents contamination and ensures process stability.
- Tracks storage conditions for milk, yogurt, juices, beverages.
- Supports full traceability across production to dispatch.

Meat, Poultry & Seafood Handling

- Temperature control during chilling, freezing, thawing cycles.
- Ensures compliance with strict hygiene and safety norms.
- Minimizes bacterial growth and quality degradation.
- Real-time monitoring for cold chain integrity.

Logistics & Transportation (Cold Chain)

- Live tracking inside reefer trucks & insulated containers.
- Alerts for temperature breaches during transit.
- Ensures farm-to-retail freshness for perishable goods.
- Maintains compliance with transport-level FSSAI guidelines.

Why Monitoring Is Mandatory?

Ensuring Food Safety, Quality, and Compliance Across the Supply Chain

- Continuous monitoring of temperature and humidity is **critical for maintaining food safety, preserving product quality, and complying with HACCP and FSSAI standards.**

- By tracking conditions across processing, storage, and transportation, our solutions **prevent spoilage, extend shelf-life, and safeguard the integrity of every batch,** protecting both consumers and your brand reputation.

| Food Safety	Shelf-Life Extension	Regulatory Compliance	Brand Reputation	Cold Chain Integrity

Data Loggers Deployment

Deploying Data Loggers for Maximum Efficiency

- **Continuous Monitoring & Real-Time Alerts** — Our data loggers provide 24/7 tracking of critical parameters like temperature, humidity, and equipment status, delivering instant alerts to prevent deviations, protect assets, and maintain product integrity.

- **Compliance, Traceability & Operational Optimization** — Deployed across production lines, cold storage, and controlled environments, our data loggers deliver audit-ready records to ensure regulatory compliance and improve process efficiency.
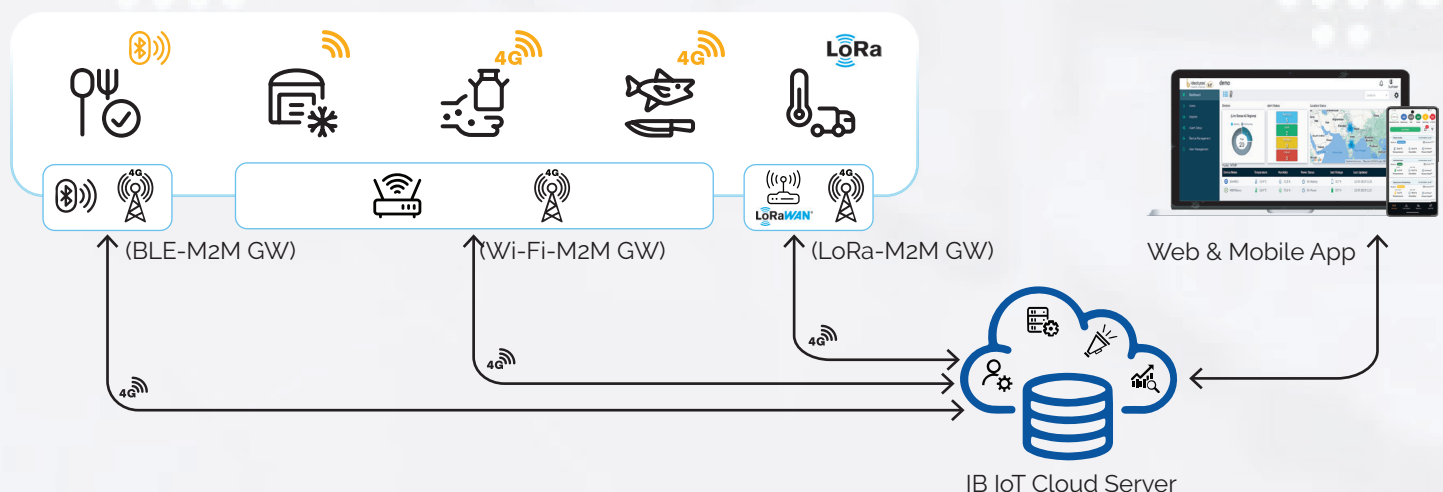
Sensor Probes
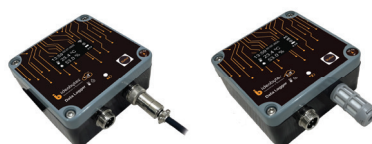
Data Loggers

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 **wide range of data loggers** delivers **real-time monitoring** with **alerts and audit-ready records, ensuring safety, efficiency, and compliance** across **manufacturing, cold storage, pharmaceuticals, and industrial environments.**

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 (Default: 15 mins)
- Optional SMS Alerts
- Web & Mobile Apps (iOS & Android)

*Features and specifications vary according to selected model

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