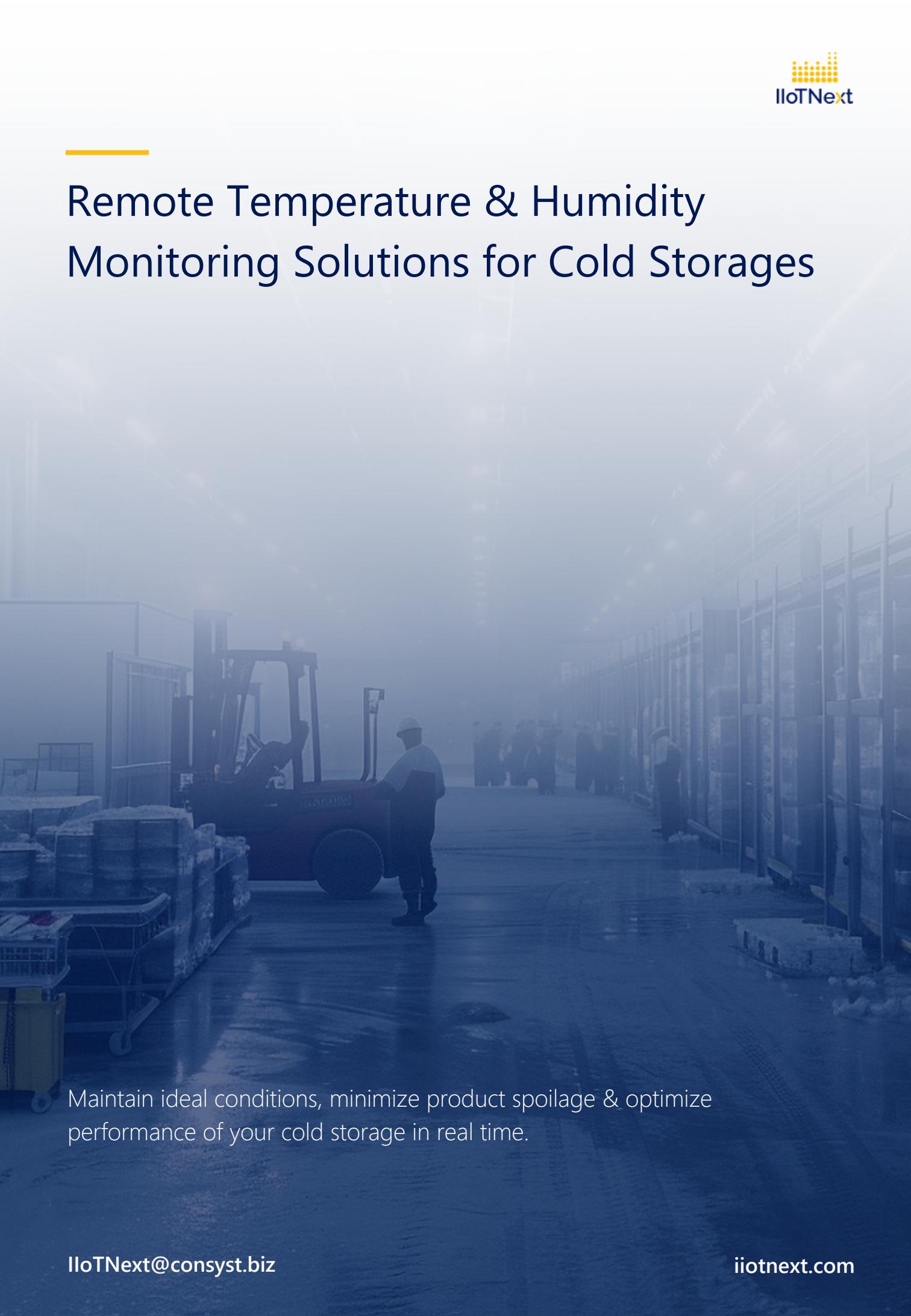

Remote Temperature & Humidity Monitoring Solutions for Cold Storages

A blue-tinted photograph of a cold storage warehouse interior. In the foreground, a worker in a white hard hat and dark uniform stands next to a red forklift. To the left, there are stacks of pallets wrapped in plastic. The background shows a long aisle with other workers and industrial equipment. The floor is wet and reflective.

Maintain ideal conditions, minimize product spoilage & optimize performance of your cold storage in real time.

Why Remote Monitoring?

Cold storage facilities are critical for preserving perishable goods such as fruits, vegetables, dairy products, meat, poultry, seafood and pharmaceuticals. The slightest temperature deviations or fluctuating humidity will result in product spoilage, financial losses and energy inefficiency.

Key benefits for Remote Monitoring in Cold Storage



Real-time temp. & humidity control to ensure optimal storage conditions



Reduced product spoilage & waste by maintaining consistent conditions



Energy efficiency & cost savings



Centralized monitoring & control across multiple cold storage sites.



Improved operational efficiency by reducing manual monitoring



Data Analytics for smarter operational and strategic decision-making

The Solution – Smart, Scalable & Reliable

Our solution combines compact hardware with powerful cloud software for complete visibility and control.

Plug-and-Play Data Acquisition Box

Powered by IIoTNext MicrEdge 170 Gateway

Designed for field conditions, the MicrEdge captures and transmits real-time parameters such as temperature, humidity and more. It can be installed in compact wall mount DAQ enclosure.



Key Highlights



All integrated compact wall mount Panel Enclosure



Integrated with GSM, Wi-Fi, or Ethernet for internet connectivity



Necessary IP ratings for environmental conditions



Centralized device management & device configuration

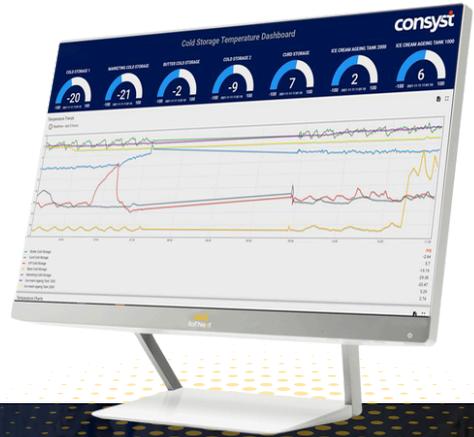


On-board I/Os for sensor connectivity

IloTNext Cloud Platform

Remote Monitoring and Centralized Visibility Center

The IloTNext Platform processes and visualizes various real-time parameters such as Temperature, Humidity- accessible from any device.



Key Features



Monitor from any browser (desktop/laptop) or mobile app (Android)



Real-time dashboards to monitor temperature, Humidity and more



Alerts and notifications via email for critical events



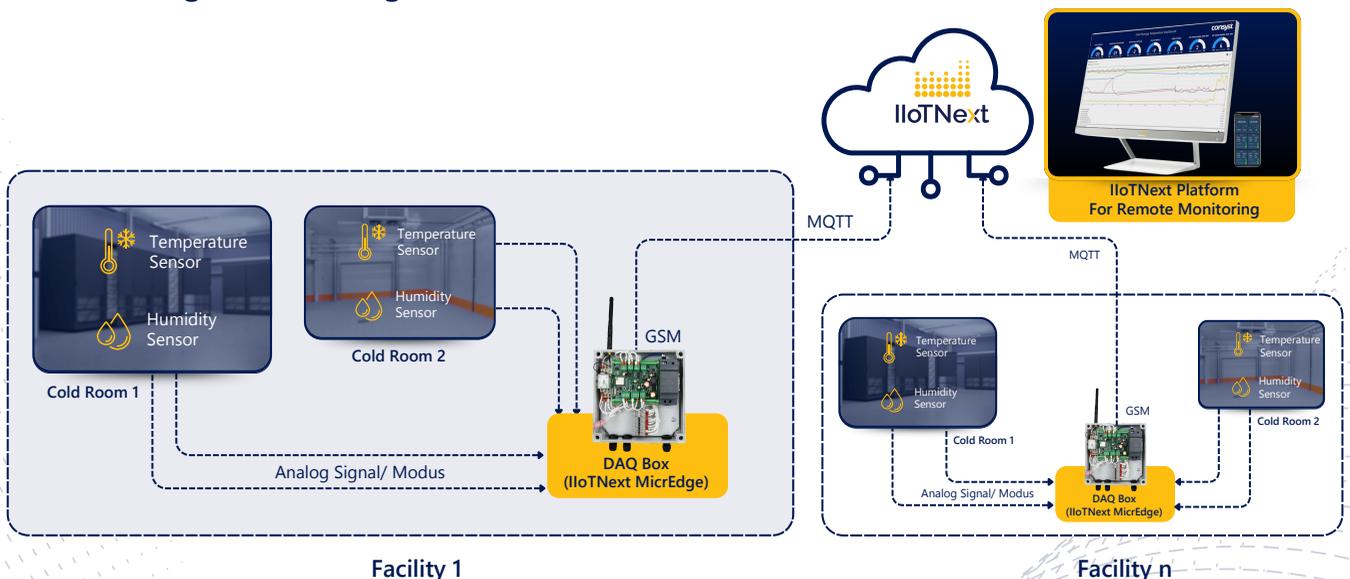
Supports multiple devices with role-based access and audit logs



Set up logic rules, schedules, and automated reports

System Architecture

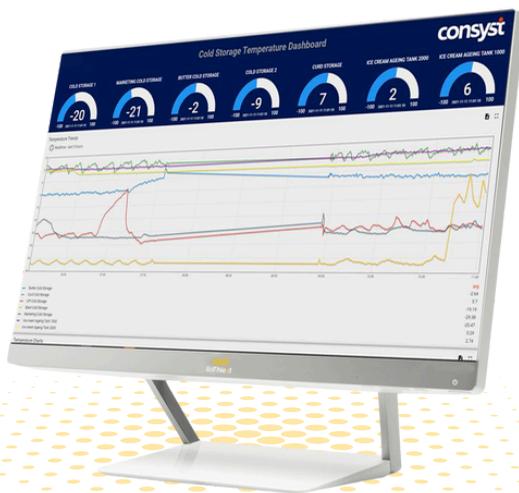
Cold storage Monitoring with IloTNext



IloTNext MicrEdge 170 – Key Features

Compact and rugged gateway designed for real-time cold storage monitoring.

- ✓ Power: 12–24 VDC
- ✓ Internet Connectivity: GSM/LTE, Wi-Fi, Ethernet
- ✓ Mounting: DIN rail / backplate
- ✓ Enclosure: Fits inside control/DAQ panel – industrial-grade reliability
- ✓ Cloud Communication : Secure MQTT protocol
- ✓ I/O Support: Inbuilt I/Os and expandable via I/O modules



IloTNext Platform

IloTNext Platform – Key Features

Cloud-based platform for centralized monitoring, visualization, and alerting.

- ✓ Live Dashboards: Temperature, Humidity & more
- ✓ Mobile & Web Access: Browser and Android app
- ✓ Custom Alerts : Get email notifications for faults or thresholds
- ✓ Reports : Auto-generate and email PDF/Excel reports
- ✓ Security: Role-based access, encrypted communication
- ✓ Device Management: Manage 1000+ gateways with remote config and updates

Want to safeguard your perishable goods with our Remote Monitoring Solution?
Get in touch with us.



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