Intelligent Supply Chain Information

BT9

Real time cold chain information system

Xsense

Real time cold chain information system

www.bt9-tech.com
Intelligent Supply Chain Information

Wireless RF sensor tags - Collect perishables' temperature and relative humidity data from within cartons and pallets in trailers or containers throughout the supply chain. Transmission of either real time alerts or off line data in end-to-end shipments.

Real time alerts - Enables immediate corrective action to reduce perishables' wastage and minimize risk related to quality & food safety.

Automatically transmitted in transit information - Information transmitted upon arrival to shippers and receivers alike, devoid of human interaction or data manipulation to enable cold chain transparency and visibility.

Analytics - High quality web based information and reports to enable food quality and food safety risk mitigation: Reports available for warehouse & DC; weight loss estimations; Cold Chain Logistics evaluations (CCL Scoring); Pallets at risk (PAR) annotations; insurance, government and mega-organizations requirements; pallets' history reports, and for improved inventory management information, etc.
Xsense® - System Layout

Complete end-to-end cold chain information

Continuous wireless data transmission and profiling of temperature fluctuations throughout the supply chain. Guiding improvement and accountability in all parts of the supply chain.

Data Collection
Disposable wireless RF sensor tags (Xsense® HiTags) collect perishables' temperature and relative humidity (RH) data from within cartons, pallets and trailers enables real time, on line corrective action as well as perishable in-transit data history logging.

Data Transmission
The Xsense® communication units (CU) relay all the data collected by the Xsense® HiTags along with GPS location data to the Xsense® information center either in real time or off line as required. The CU can be installed in fields, production facilities, storage areas, delivery docks, trucks, containers, etc. offering complete monitoring converges to each and every facility or location.

Fixed - Permanent installation in warehouses
Vehicle mounted - Permanent installation in trucks
Portable - Placed in trucks as transient devices to be retrieved by the end of each transit cycle

Decision Making Information
The Xsense® information system offers real time and post shipment data viewing & control of perishables risks. Via cellular and/or Internet access, 24/7 - Anytime, Anywhere. Sophisticated and state of the art data mining, structure and processes, enable information based reports for all constituencies of the supply chain including insurance companies, government agencies, and mega-organizations.

Real time alerts and corrective action
Full cold chain information view
GPS product location and status map

Temperature range: -35°C to +50°C
Various data sampling interval
Relative Humidity: 30-95%
~200 Meters radius in open space
Up to 1,500 Xsense® HiTags reading in real time per unit
Xsense® Commercial and Solutions Models

The combination of our advanced technology and accumulated experience and expertise in supply and cold chain management enables us to customize highly-effective solution programs based on products and services. As a result, our customers deliver consistent high quality products and benefit from improved operations and increased return on investment.

Our commercial models include:

**Static Product Monitoring Solutions**
For monitoring fields, greenhouses, precooling processes, product conditioning processes, for small food outlets, drug stores and large storage areas

**In-transit Shipment Monitoring Solutions**
For “Data Logger Plus” monitoring, “Real Time Plus” monitoring, “Pulp & Core Temperature” monitoring, “Integrated Cold Chain” monitoring, and “Routes” (Last Mile) monitoring

**Analytics and Consulting Services**
Customized analytics, reports and consulting

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BT9, develops and manufactures the Xsense®: an advanced end-to-end, real time, cloud based, cold chain monitoring and information system. We secure successful global perishable trade transactions. The Xsense® technology provides valuable hands on intelligent information for the food and pharmaceutical industries.

BT9 offers multi-disciplinary professional experience in all facets of cold chain management.

Comprising of professionals and experts in the area of logistics, food, life sciences, software, hardware and information engineering.

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