

Cold Chain Monitoring Market with COVID-19 Impact by Offering (Hardware and Software), Logistics (Storage and Transportation), Application (Pharmaceuticals & Healthcare, Chemicals), Temperature, and Region - Global Forecast to 2026

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Abstracts

The Cold chain monitoring market is expected to grow at a CAGR of 16.6% from USD 4.7 billion in 2021 to USD 10.2 billion in 2026. Increasing demand of Cold chain monitoring products in the pharmaceuticals & healthcare industry will drive the market.

“Cold chain monitoring market for transport is expected to grow at highest CAGR during the forecast period”

Transportation is the most important phase in the cold chain due to the possibility of unforeseen environmental variations. Cold chain transportation is a temperature-controlled supply chain used in industries such as pharmaceuticals, healthcare, food & beverages, and chemicals. The efficient management of cold chain transportation is essential for maintaining the integrity of the products being transported, for instance, the cold chain transportation of pharmaceuticals, many of which must be maintained at a specific temperature. Medical and high-end products have a lower tolerance for temperature excursions, and product spoilage leads to a significant loss of capital. To minimize the chances of temperature irregularities in transit, transporters use simple measures such as dedicated vehicles, phase-change gel bricks to identify excursions, doubling up on packaging, and active cooling to secure their shipments.

“Cold chain monitoring market for hardware segment accounted for the largest share in 2020”

Hardware such as sensors, data loggers, RFID devices, and telematics and telemetry devices, and networking devices are used in applications ranging from the sensing of environment to the relaying of data to a centralized database for further evaluation. For most cold chain applications, accuracy and reliability of hardware are critical parameters. Data loggers are used throughout the cold chain to monitor the temperature of food, pharmaceuticals, chemicals, and other temperature-sensitive products. Sensors and data loggers are important components of the sensory network of a cold chain. Various types of sensors, such as temperature sensors, humidity sensors, chemical indicators, and impact and tilt sensors, are used in this network. Temperature sensors sense the temperature at a specific location within a cold room, freezer room, refrigerator, or freezer unit. These are generally environmental sensors that measure environmental parameters such as temperature and humidity with more importance given to temperature information. The data from sensors would normally be periodically stored on separate storage elements called data loggers, which could make the necessary data available in readable formats such as PDF files and e-mail. Sensors and data loggers are now being integrated into a single package to form a more compact product.

“Americas is expected to hold the largest market for Cold chain monitoring during the forecast period”

North America is the largest market for cold chain monitoring in the Americas at present and is likely to exhibit a similar trend during the forecast period. Increasing demand for chilled and frozen food products in North American countries is likely to trigger the demand for cold chain monitoring solutions in the region. Cold chain monitoring infrastructure includes refrigerated storage and refrigerated transport. The escalating demand for dairy products, vegetables, and fruits is increasing the imports, as well as exports of exotic vegetables and fruits and dairy products, which is also boosting the demand for cold chain monitoring solutions. According to the United Nations COMTRADE database, in 2012, North America was one of the largest exporters and importers of perishable food, including meat, fish, and seafood, across the world. It was also the largest importer of fruits and vegetables. The pharmaceutical and healthcare industries also have noteworthy contributions toward the cold chain monitoring market growth in the region. The pharmaceutical industry is subject to stringent regulations aimed at ensuring safety and good storage and distribution practices. Stringent government regulations toward food safety and Global Cold Chain Alliance (GCCA) initiatives help shape the environment in this region, which indirectly impacts the cold chain monitoring market.

Breakdown of the profile of primary participants:

By Company Type: Tier 1 – 30 %, Tier 2 – 38%, and Tier 3 – 32%

By Designation: C-level Executives – 44%, Directors - 38%, and Others -18%

By Region: APAC – 26%, North America– 30%, Europe – 25%, and RoW – 19%

The major players profiled in this report include:

ORBCOMM (US)

Sensitech (US)

Berlinger & Co. (Switzerland)

Elpro-Buchs (Switzerland)

Monnit (US)

Controlant (Iceland)

Infratab (US)

Research Coverage

The study segments the Cold chain monitoring market report into technology (cooled, uncooled), vertical (industrial, nonindustrial), type (mercury cadmium telluride, indium gallium arsenide, pyroelectric, thermopile, microbolometer, PIR motion sensor, IR imaging sensor, others), by application (people and motion sensing, temperature measurement, security and surveillance, gas and fire detection, spectroscopy and biomedical imaging, scientific applications, and smart buildings) and wavelength (NIR & SWIR, MWIR, LWIR). The study also provides market size for various segments regarding four main regions—North America, Europe, Asia Pacific (APAC), and Rest of the World (RoW).

Reasons to buy the report

Cold Chain Monitoring Market with COVID-19 Impact by Offering (Hardware and Software), Logistics (Storage and...

The report would help the market leaders/new entrants in this market in the following ways:

1. This report segments the Cold chain monitoring market comprehensively provides the closest approximations of the overall market size and those of the subsegments across different applications and regions.
2. The report provides a detailed analysis of the cold chain monitoring market with the help of competitive leadership mapping, including crucial companies in the market and their relations in the ecosystem.
3. The report helps stakeholders understand the pulse of the market and provide them information on the key market drivers, restraints, challenges, and opportunities.
4. This report would help stakeholders understand their competitors better and gain insights to enhance their position in the business. The competitive landscape section includes the competitor ecosystem, product developments, partnerships, and mergers & acquisitions in the Cold chain monitoring market.

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