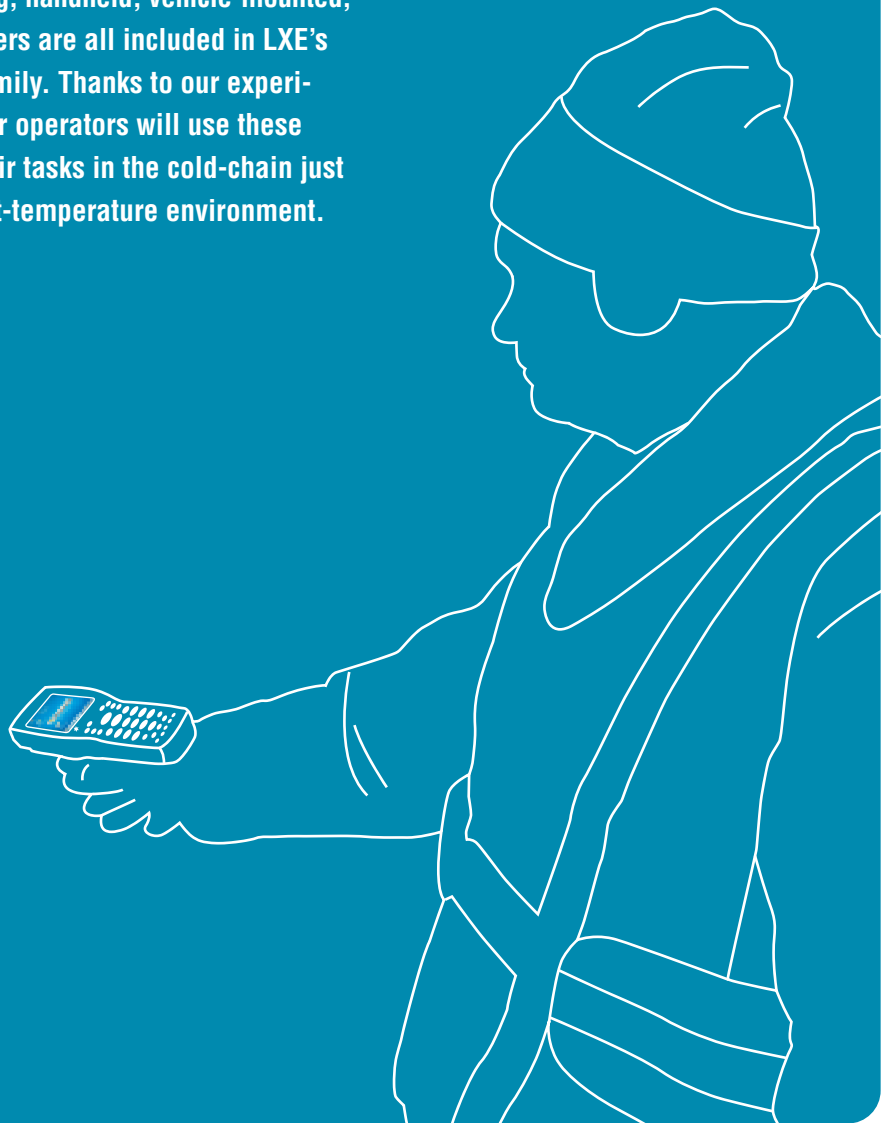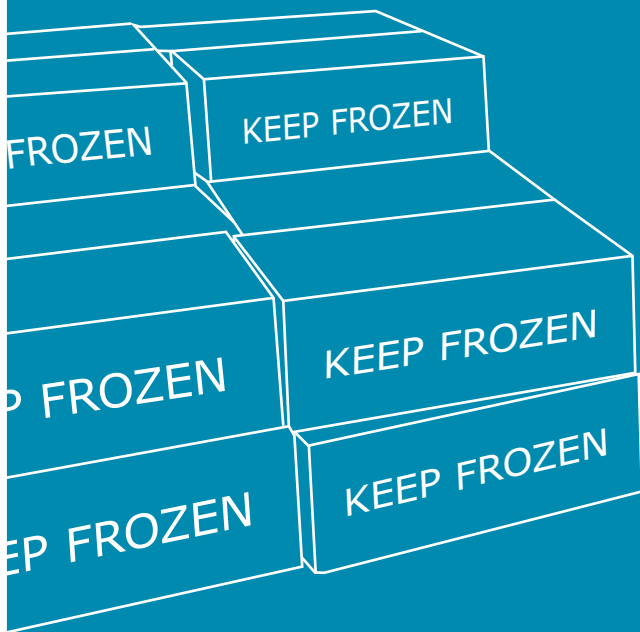# COLD-STORAGE COMPUTING

LXE®

BROADEST LINE OF COLD-STORAGE SOLUTIONS

JUST LIKE IN AMBIENT TEMPERATURES, YOUR COLD-CHAIN LOGISTICS SERVICE MUST DELIVER ACCURACY AND PRODUCTIVITY.

LXE's cold-storage computing products and services give cold-storage facility operations like yours all the benefits of mobile computing and automatic data-capture, without compromises.

Bar code scanning, wireless networking, handheld, vehicle-mounted, and even hands-free wearable computers are all included in LXE's comprehensive cold-chain product family. Thanks to our experience and innovative engineering, your operators will use these products to successfully complete their tasks in the cold-chain just the same as they would in an ambient-temperature environment.

KEEP FROZEN

KEEP FROZEN

KEEP FROZEN

FROZEN

P FROZEN

EP FROZEN

"Our below zero freezers and the hot, humid Wisconsin summers combine to make a brutal operating environment. LXE's terminals handle it with ease."

Shannon Riley, IS Manager, Geneva Lakes Cold Storage, Inc.

CONDENSATION. SCREEN FOGGING. BULKY CLOTHING AND GLOVED HANDS. FREEZING TEMPERATURES. GIVE YOUR OPERATORS LXE COLD-STORAGE COMPUTING PRODUCTS. TOOLS THAT OVERCOME THESE OBSTACLES.

You need cold-storage products built with attention to the dynamics that exist in cold-storage environments. Battery technology, component coating techniques, strategic heater placement, keypad usability and even the effect of low temperatures on plastic casings are key considerations during LXE's design and engineering processes. Your operators can rely on LXE Cold-Storage Computing products to get the job done.

CHALLENGES MET IN COLD-STORE OPERATIONS

COLD CASE STUDY

Daalimpex Coldstores B.V.

Extremely high mobility at extremely low temperatures provides customer satisfaction for European based, cold storage giant, Daalimpex. Daalimpex, a logistics service provider in the Netherlands specializing in the cold and frozen storage of food and other temperature-sensitive products, has a worldwide network of suppliers and clients.

Among numerous requirements, Daalimpex wanted to increase customer satisfaction by offering customers the ability to follow the movement of goods online. They also wanted to come into line with a number of legal requirements regarding tracking and tracing. "Ever higher demands are being made on the traceability of our products," says controller, Joost de Boer of Daalimpex.

The Solution

After a thorough comparative study of wireless products, Daalimpex realized that not all wireless equipment is equal in freezing temperatures. Daalimpex, chose LXE's heated, vehicle-mounted computers and scanners. "The hard drive and all other hardware proved to be exceptionally resilient to the cold conditions," said de Boer.

The Results

Today, the traceability of Daalimpex products now runs in real-time and is available to customers online. Effectively, clients can look over the shoulders of Daalimpex's warehouse personnel as they scan incoming and outgoing goods. Using LXE's wireless computers allows everything to be dealt with on the spot. "The throughput time has been radically reduced, and we can give our international clients much more accurate and up-to-date information," added de Boer.

"The throughput time has been radically reduced…"

Joost de Boer, Controller, Daalimpex

Keep scanning. Bar codes can be read efficiently since the built-in heater prevents the scan window from fogging up.

Keep operating. Frequent moves between cold and ambient temperatures won't disrupt this operator's productivity. Heaters, coatings and sealing protect from condensation.

Voice recognition. Leave both operator's hands free by using LXE's HX3 dedicated voice computer, with ToughTalk™ technology. ToughTalk™ technology is available on LXE's full-line of cold storage computing products.

Stay connected. Keep your operations moving with an LXE wireless network, including rugged Spire® Antennas, heated access points (APs), and more.

COLD CASE STUDY

Geneva Lakes Cold Storage

Geneva Lakes Cold Storage (GLCS) is a family-owned business located in Darien, Wisconsin. They are the primary storage and distribution point for Tombstone, Jack's, and DiGiorno brand frozen pizzas.

Geneva Lakes Cold Storage managed their 650,000 sq. ft., -20°F warehouse with a paper-based system. With over 100 truckloads of product shipped every day, properly recording and managing inventory was becoming increasingly difficult. GLCS needed a new, real-time data collection solution.
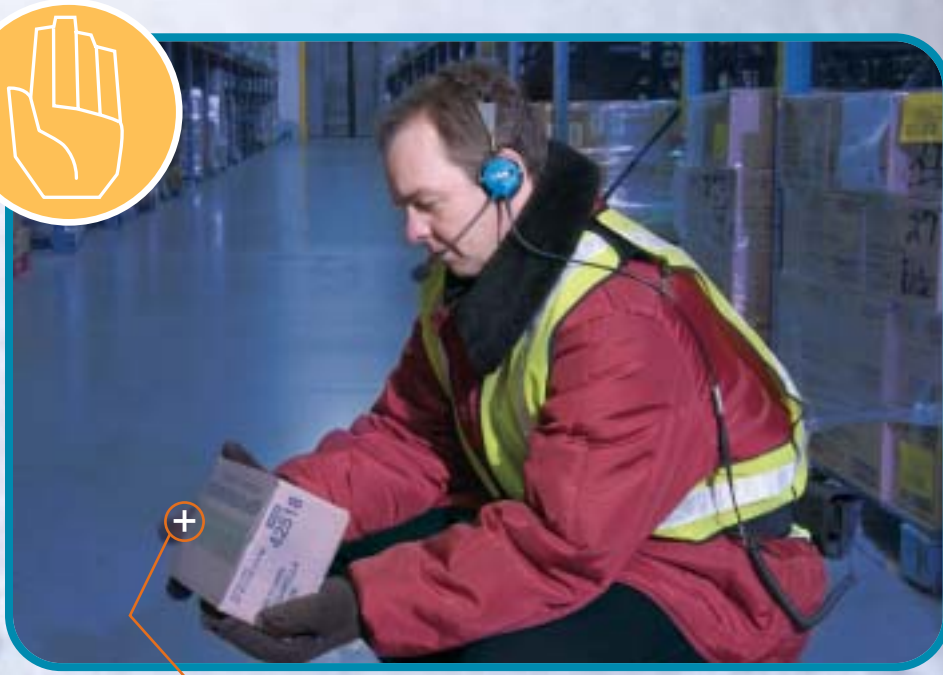
The Solution

After an extensive trial and evaluation of the vehicle-mount computers available on the market, GLCS chose LXE. The LXE cold-storage units offer a large, easy-to-read, backlit display and a keyboard that can be used by forklift drivers wearing gloves. GLCS now has fifty LXE cold-storage computers in use, and all have performed flawlessly in this super-cold environment.

GLCS's warehouse is large and segregated into many different sections stocked full of pallets loaded with dense food products. Also, since the building operates as a large freezer, the walls are heavily insulated and lined with stainless steel. These obstacles create an RF environment conducive to multi-pathing — the phenomenon that occurs when radio signals bounce off obstacles and arrive at the receiver at slightly different times, causing the receiver to fail to pick up either of the signals. In order to circumvent multi-pathing and coverage problems, LXE performed a pre-installation facility analysis. The facility analysis determined optimal locations for the access points and the Spire® Antennas and enabled consistent coverage throughout the facility.

The Results

• Inventory accuracy level reached 99.9%.

• Order picking and processing time reduced by 50%.

• Physical inventory time reduced from a few days to a few hours.

• Daily orders shipped doubled.

• Total ROI realized in less than 16 months.

And best of all, due to greater efficiencies, GLCS has more available hours and better processes to take on new clients.

SPOTLIGHT — MX7CS HANDHELD COMPUTER

No-fog bar code scanner window

Brightly-lit, "no-fog" clear displays

Compact, rugged, lightweight

Low temperature grade casing

Large, backlit keys

Good-Scan vibrating handle

ToughTalk™ voice-recognition support — as standard

Low-temperature battery for extended use

VOICE READY

LXE COLD-STORAGE COMPUTING: THE COMPLETE SOLUTION

LXE and our network of partners provide a comprehensive range of implementation and post-implementation services, including full turn-key installation. With our global ServicePass Complete™ service package, you can purchase up to 5 years of comprehensive support, including a 5-day turnaround repair-service and 24x7 live telephone support.

The challenging conditions of cold-storage environments also affect the wireless networks that will connect your operators with the inventory management and enterprise resource planning systems. Again, LXE has the experience and technology to overcome these challenges with products including our acclaimed Spire® Antenna.

LXE COLD-STORAGE COMPUTING PRODUCTS:

NO frost • **NO** fog • **NO** condensation • **NO** more bulky hard to use computers

LXE is_COLD-STORAGE SOLUTIONS AND MORE.

Rugged Mobile Computers
- Vehicle Mounts
- Handhelds
- HandsFree

Advanced Data Collection
- Bar Code
- Imaging
- RFID
- Voice

Secure Wireless Networks
- 2.4 GHz 802.11b/g (Wi-Fi)
- Spire® Antenna
- Network Management Software

Innovative Services
Clients appreciate LXE's award-winning services. Our ServicePass Complete™ program bundles critical services to ensure maximum performance, hassle-free maintenance, and consistent care for wireless equipment, all in a single, convenient agreement.

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LXE®

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