

Spire® Antenna Proves Ideal Solution in Hong Kong Port.

CASE STUDY

MODERN TERMINALS LIMITED - LXE has completed the largest 802.11b, 2.4GHz network installation of its kind at Modern Terminals Limited Kwai Chung Port in Hong Kong. The Kwai Chung Port 2.4GHz technology network installation covers an area of nearly 200 acres and in its final stage will support more than 300 LXE rugged mobile computers.



Modern Terminals Limited is Hong Kong's oldest established container port operator. It owns and operates five main berths and one feeder berth at Kwai Chung Port Container Terminals 1, 2, 5 and 8 (West), in addition to an on-site 12-story warehouse and container freight station.

In February 2001, the company set a new world record with an average working rate of 336 container moves per hour, exceeding by a wide margin the fastest rate reported at any other terminal in the world.

The Solution

Modern Terminals selected LXE vehicle-mount computers for use on all its cranes, and handheld mobile rugged computers for use in quayside, gatehouse, container yard, and mobile vehicles. LXE access points were installed at all strategic locations covering the entire operation facility. "This system's use of 11MB direct sequence spread spectrum (DSSS) transmission in the 2.4GHz waveband conforms to the latest 802.11b standard, and it provides the level of security and reliability required by these ports projects," stated Dick Sorenson, Director, Product Management, LXE Inc. "Initially, Modern Terminals had a lot of

concerns regarding the limitations of using a wireless LAN in outdoor coverage," said Thomson Ho, IT Manager, Infrastructure Modern Terminals. "Our concerns were lifted completely after LXE successfully demonstrated their Spire® Antenna technology to us. Our present wireless LAN infrastructure is cost-effective, and gives us the flexibility and the bandwidth we need," Ho added. Modern Terminals is the leading developer of the latest 6-berth Container Terminal 9 at Kwai Chung Port. The terminal gives Modern Terminals an increased annual throughput capacity of 4.5 million units. Modern Terminals will extend the coverage of LXE's mobile computer equipment and 2.4GHz highspeed wireless network to Container Terminal 9. "We are also considering deploying this technology in our inter-building connectivity in the future," added Ho. "The Modern Terminals ports/container terminal project in Hong Kong is an example of LXE's broad capabilities in providing customers with rugged mobile logistics solutions that meet their performance, security, equipment reliability, and high-availability needs," said Philippe Bechet, General Manager, LXE International.

About LXE Inc. LXE Inc. improves supply chain performance by applying over 30 years' experience developing wireless products and solutions. From wireless computers, advanced auto-ID technologies, and wireless network infrastructure, to our award-winning customer support - LXE's easy-to-use products are as reliable as the people who install and support them.

Based in Norcross, Georgia, LXE also offers a full range of turnkey services, including radio integration, project and installation management, network design, technical support, and repair services. LXE is a wholly-owned subsidiary of EMS Technologies, Inc. (DAQ: ELMG), and has offices worldwide. For more information, visit www.lxe.com.