LIGHTPOINTE™

APPLICATION BRIEF

ENGINEERING SERVICES SOLUTIONS

Optical Wireless for Engineering Services: Quickly link established or portable facilities with high-throughput connectivity

THE PROBLEM:

The Problem: Engineering services firms need to quickly and cost-effectively connect high-speed networks between office buildings or portable office work trailers.

Engineering services firms must add or re-assign personnel on deadline to meet customers' time-sensitive project demands. Large-scale engineering projects for rapidly changing corporations require temporary facilities such as rented office space or portable office trailers, which need high-speed network connectivity for access to large data files from computer-aided design (CAD), modeling, process simulation and imaging applications. To remain competitive, engineering services firms must operate flexible high-speed networks that enable employees to collaborate projects from a centralized server. For engineering services networks with two or more sites, wired T1/E1 connections are insufficient. The steep costs of trenching and installing fiber—combined with the many months necessary to obtain permits and complete an installation—make dedicated fiber an unattractive option. For deployment of centralized network data centers and support of critical applications in multiple buildings, neither wired T1/E1 connections or fiber are viable, due to throughput constraints or costs.

To avoid the enormous costs of fiber, installations that can take months, and the throughput limitations of T1 and E1 connections, engineering services firms are turning to Optical Wireless solutions.

THE SOLUTION:

The Solution: High-throughput beams of light connect buildings, enabling data-intensive computer-aided design, modeling and process simulation collaboration by engineering services firm employees in multiple sites.

Engineering services firms with two or more buildings visible by line-of-sight are turning to high-speed Optical Wireless bridging solutions for real-time inter-building collaboration. Now, users in multiple buildings or portable sites can access a centralized data center at the same speed as if they were in the same building. Leveraging proven free-space optics (FSO) technology, Optical Wireless solutions combine the speed of fiber with the flexibility of wireless. Using laser beams, engineering services firms can instantly transmit data at light speed without the complications of leased or dedicated lines. Optical Wireless solutions can be rapidly deployed, often in a single day, and re-deployed for future networks and customer-driven requirements.

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The solution eliminates:

- Duplicate data centers in multiple buildings
- Time-consuming installations
- T1 and E1 throughput constraints
- Costly fiber investments
- Reliance on fixed-line service providers
- In-ground fiber requirements

LIGHTPOINTE LEADERSHIP:

LightPointe Optical Wireless solutions are deployed by engineering services firms throughout the world

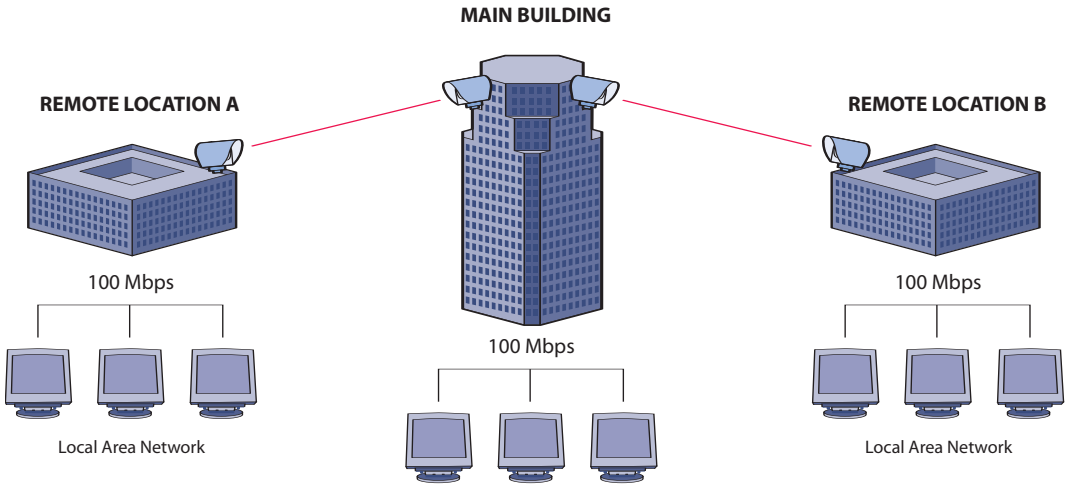
LightPointe is a pioneer in Optical Wireless solutions. The company's outdoor wireless products have enabled building-to-building wireless fiber-optic performance for many of the world's largest engineering services firms. Designed to meet the installation, budget and availability requirements engineering services firms, LightPointe securely connects buildings that have line-of-sight visibility within approximately 4,000 meters (2.5 miles).

Additional Benefits include:

- Full speed, bi-directional communication
- Not reliant on service provider fiber line availability
- Secure connections cannot be sniffed or detected
- Installed and operational in a day
- Immune from interference with existing wireless products
- Can be mounted on roofs or behind windows
- No spectrum licenses
- Works in climates around the world from Siberia to Baghdad
- Multi-beam redundancy available

Application Brief

Engineering Services Solutions



LightPointe extends high-speed network connectivity among multiple buildings or sites via beams of light.