



APPLICATION BRIEF



DISASTER RECOVERY SOLUTIONS

Rapid Network Deployments Meet Critical Business Continuity Requirements

THE PROBLEM:

In today's fast-paced business environment, the corporate network serves as an essential life-line, carrying critical data, voice traffic, financial transactions and digital images. There is little tolerance for any downtime or business disruption. For that reason, most Enterprises develop strategic business continuity plans to ensure uninterrupted network access to vital information if and when disasters strike. Redundant communications links and fail-over network equipment typically are deployed to minimize the impact of electrical power failures and underground

The Problem: Enterprises are seeking high-speed connectivity solutions that provide seamless, portable, secure and instantaneous disaster recovery or backup without the exorbitant costs and installation challenges of redundant fiber-optic cable, or the bandwidth constraints of low-speed RF and T1/E1 connectivity.

cable cuts, as well as recover quickly from fires, floods, earthquakes and other natural disasters. However, deploying backup networks and multiple access points for instantaneous communications fail-over can be both costly and complex.

Traditionally, Enterprises have added network redundancy by leasing slow, copper-based T1/E1 lines or adding secondary links based on low-speed radio frequency (RF) solutions. When

substantial bandwidth is required, some organizations will install redundant fiber-optic cable, but the expensive, wired underground alternative isn't always available due to rights-of-way, environmental or permitting constraints. As a result, increasing numbers of Enterprises are turning to flexible, reliable Optical Wireless solutions to ensure rapid connectivity and uptime during disasters, as well as provide temporary connectivity or redundancy as needed.

THE SOLUTION:

Businesses with facilities visible by line-of-sight are deploying high-speed Optical Wireless links to support corporate network disaster recovery plans, while bolstering the backbone of vital business communications. When installed as Rapid Deployment Kits, high-speed Optical Wireless links keep businesses up and running by re-establishing inter-building connectivity damaged during man-made or natural disasters. Optical Wireless links also provide alternative, redundant paths to diverse access points when installed as permanent secondary links to wired infrastructure or other wireless solutions. Leveraging free-space optics (FSO) technology, Optical Wireless solutions combine the speed of fiber with the flexibility of wireless for highly effective network redundancy and temporary connectivity. These highly versatile communications devices can be installed quickly and transmit secure network signals at distances



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of more than 4 kilometers, using very narrow beams of invisible light pulses that achieve full-duplex Gigabit Ethernet speeds without the time delays and high recurring charges associated with leased or dedicated fiber-optic lines.

Ideally suited for disaster recovery applications, Optical Wireless can be deployed rapidly with Power over Ethernet (PoE) technology for expedited installations. PoE support eliminates the need for additional electrical wiring, resulting in easier, faster and more economical installation because no fiber-optic cable has to be pulled to a building rooftop or window, and no additional power source is necessary. Optical Wireless Rapid Deployment Kits provide a complete end-to-end Optical Wireless solution, including transceivers, ruggedized mounting stands, PoE injectors and installation instructions for expediting network recovery while minimizing business impact.

The Solution: Optical Wireless offers high-throughput connectivity that Enterprises can count on when disaster strikes.

The solution eliminates:

- Costly recurring lease charges from Telco intermediaries for redundant fiber-optic cable
- Throughput constraints and bottlenecks caused by backup T1/E1 or RF links
- Reliance on fixed-line service providers for disaster recovery support
- Time-consuming installations
- In-ground fiber requirements
- Leases and long-term contracts
- High costs

Optical Wireless solutions are the optimal Disaster Recovery solution, replacing or backing up insufficient T1/E1 lines, radio frequency links or expensive fiber-optic cable lines with flexible, expedited backup network connectivity.



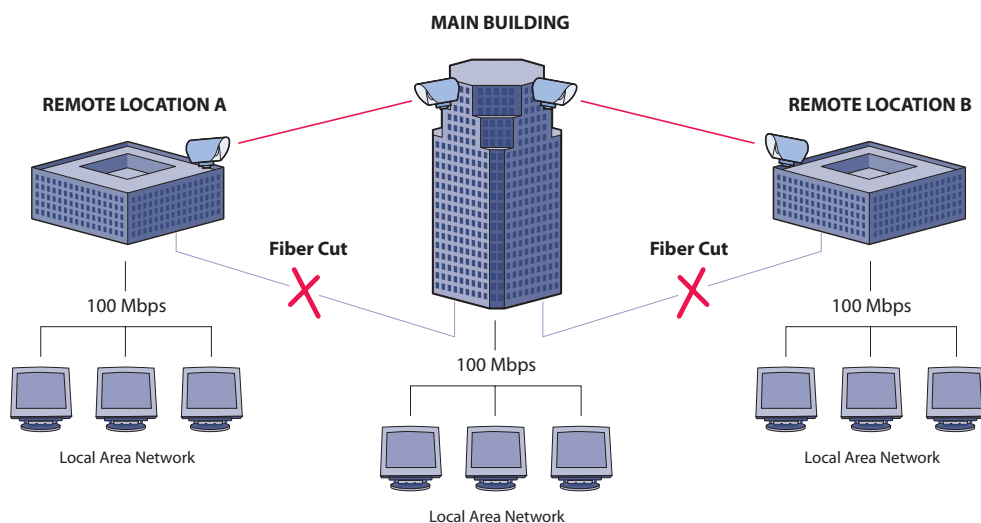
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Benefits include:

- Rapid deployment for redundant or temporary connectivity
- Installed and operational in a day
- Full line speed, bi-directional communication
- Rooftop mounting or operational through a windows
- No ongoing Telco charges – simply purchase and install
- Not reliant on carrier T1/E1 or fiber-optic line availability
- Multi-beam redundancy (certain models) for enhanced reliability
- Secure connections; Cannot be intercepted
- Immune from interference with existing wireless products
- Can be mounted on building rooftops or behind office windows
- No spectrum licenses
- Works in multiple climates – customer proven in 60 countries around the world
- Multi-beam redundancy available



Optical Wireless solutions rapidly restore LAN connectivity with beams of light.