

Solutions

Today, implementing a secure and efficient communication system can be challenging. The cost of digging and running cable and disrupting work flow is impractical and expensive. Tall buildings, natural obstructions, foliage and water can create an almost impossible situation. You need a fast and economical way to create and maintain a communications network regardless of location, indoor or outdoor—line of site or non-line of site.

We have the solution for you. The ability to deploy and manage a network in an ever changing environment **is** possible. The Orthogon System and Firetide products will solve your communication problems.



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Innovative Wireless Network Solutions



Point-to-Point and Multi-Point Wireless Solutions

Reliable ...

Secure ...

Fast ...

In the **B**usiness of **C**ommunications

800-854-8865

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Solutions

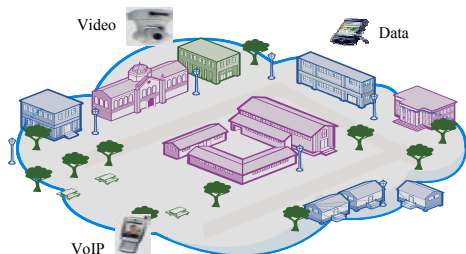
Firetide™



The Firetide high performance multi-point network provides a high capacity, self-healing communication network for both outdoor and indoor use.

Highlights:

- Easily and rapidly expandable system — up to 1,000 mesh nodes
- Mesh nodes self-configure and self-organize to create a mesh network
- Automatically creates and maintains multiple paths for redundancy and instant rerouting — eliminates single point of failure found in traditional wireless networks
- Operates as a distributed virtual switch to users, but with full routing within the mesh network
- Extremely low control overhead and load balancing yields efficient data throughput
- Provides a seamless network connectivity when used on moving vehicles— perfect for video monitoring, data transmission, and other Wi-Fi services
- Secure data and traffic transmission with either 40 bit or 104 bit WEP keys / 128 bit or 256 bit AES keys
- Includes powerful Mesh Management software



Your Solutions for...

Firetide Multi-Point Mesh Network:

Your solution for:

- Wi-Fi Access
- Video Networks
- LAN Connectivity
- Voice over IP

Indoor Unit:

- Software selectable 2.4 GHz or 5 GHz operation
- Built-in 4-port 10/100 Base T Ethernet switch and provides PoE for two (2) PD
- Plenum-rated for mounting in ceilings and optional mounting bracket for wall, cubicle, or ceiling mounting

Outdoor Unit:

- Software selectable 2.4 GHz or 5 GHz operation
- Fully 802.3af compliant PoE (PD and PSE)
- High-power 400mW radios for maximum distance and penetration

Providing Ethernet connectivity

anywhere

– indoors or outdoors

Orthogon Systems Point-to-Point:

Your solution for:

- Provide military-grade communications from one building or location to another.
- Quickly deploy emergency and safety services during an emergency incident or planned event.
- Transmit communications and information across long distances, or around buildings, trees and foliage, other structures, and over water.
- Link together different networks in different locations.

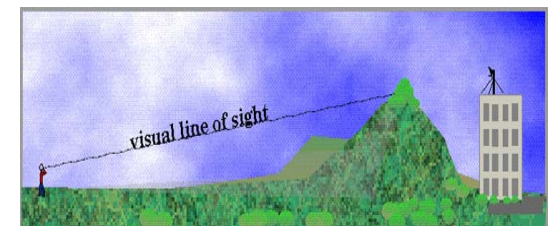
Orthogon Systems



The Orthogon System operates in the unlicensed 5.4GHz and 5.8GHz frequency spectrum providing a cost-effective, quickly deployable, and easily manageable point-to-point communications link. This quality system provides a highly reliable and secure AES level encrypted transmissions over long distances, around buildings, foliage and hills, and even over water. Unique circuitry provides a system with 99.999% availability.

Highlights:

- Non-Line of Sight (NLoS) operation allows you to effectively transmit around buildings, hills, trees, other obstructions, and over water
- Connectivity over 120 miles
- High data throughput rate—up to 300 Mbps
- High system availability—99.999%
- Secure transmissions with proprietary scrambling or optional advanced 128-bit AES encryption
- Enhanced technologies like OFDM, adaptive modulation, and dynamic frequency selection combine to minimize signal fading from path obstructions and increase bandwidth.



Orthogon Systems

True Non-Line-of-Sight Wireless Networks