

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 and foliage 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.



OS Spectra

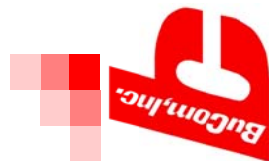
OS Gemini

Orthogon Systems True Non-Line-of-Sight Wireless Networks



firetide™
instant mesh networks™

BuCom, Inc.
388 Hollow Hill Drive
Wauconda, IL 60084
Phone: 800-854-8865
847-526-4500
<http://www.BuCom.biz>



Orthogon Systems



V.1.1

BuCom, Inc.

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

<http://www.bucom.biz>

Solutions

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 military-grade 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, and other obstructions
- Connectivity over 120 miles
- High data transmission rate—up to 300 Mbps
- High system availability—99.999%
- Secure military-grade transmissions with optional advanced 128-bit AES encryption

Products	Max Data Rate
OS-Spectra	300 Mbps
OS-Spectra Lite	150 Mbps
OS-Gemini	44 Mbps
OS-Gemini Lite	22 Mbps

Your Solutions for...

Orthogon Systems Point-to-Point:

- Provide military-grade secure 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 in areas where direct line-of-sight path is obscured or blocked.
- Link together different networks in different locations.

Firetide Multi-Point Mesh Network:

- Provide high-speed connectivity to areas where network communication is required without running miles of cable.
- Enhancing security and surveillance by installing cameras where and as needed.
- Provide emergency access to a building's security network, CCTV, fire and burglar alarms, etc., from a command vehicle or center.
- Create and quickly provide a temporary network that is easily moved, or extended.
- Easy to expand. Just install additional units. The units instantly configure themselves for operation.



Firetide™



The Firetide high performance multi-point network provides a high capacity, self-healing communication network for both outdoor and indoor use. Operating at the unlicensed 2.4 GHz, 5 GHz frequencies or in the licensed 4.9 GHz Public Safety frequency band, is system that provides a military-grade secure transmissions and is easily expanded and upgraded, performing seamlessly both indoors and outdoors.

Highlights:

- Easily and rapidly expandable system — up to 1,000 devices
- Self-healing and self-configuring capability
- Data speeds of up to 25Mbps
- High-power 400mW radios for maximum distance and penetration
- Provides advanced military-grade transmission security
- Perfect for those areas where network connectivity is needed for communication, surveillance cameras, etc.

Products	Ethernet Ports	Max Data Rate
Indoor Unit	4	10 Mbps and 25 Mbps
Outdoor Unit	2	25 Mbps