



**SKYFIBER™**

[www.skyfiber.com](http://www.skyfiber.com)



**ALLIED FIBER™**

AMERICA'S 'ALL ACCESS' NETWORK™

[www.alliedfiber.com](http://www.alliedfiber.com)

# Lighting Up Dark Fiber

Network Solutions

Emergency Response Network

Mobility Backhaul and Overlay Network

Municipality and Campus Solutions

Government and Secure Communications

Last Mile Connectivity

Business Continuity Plan

Solutions Enabling Next Generation Broadband Communications

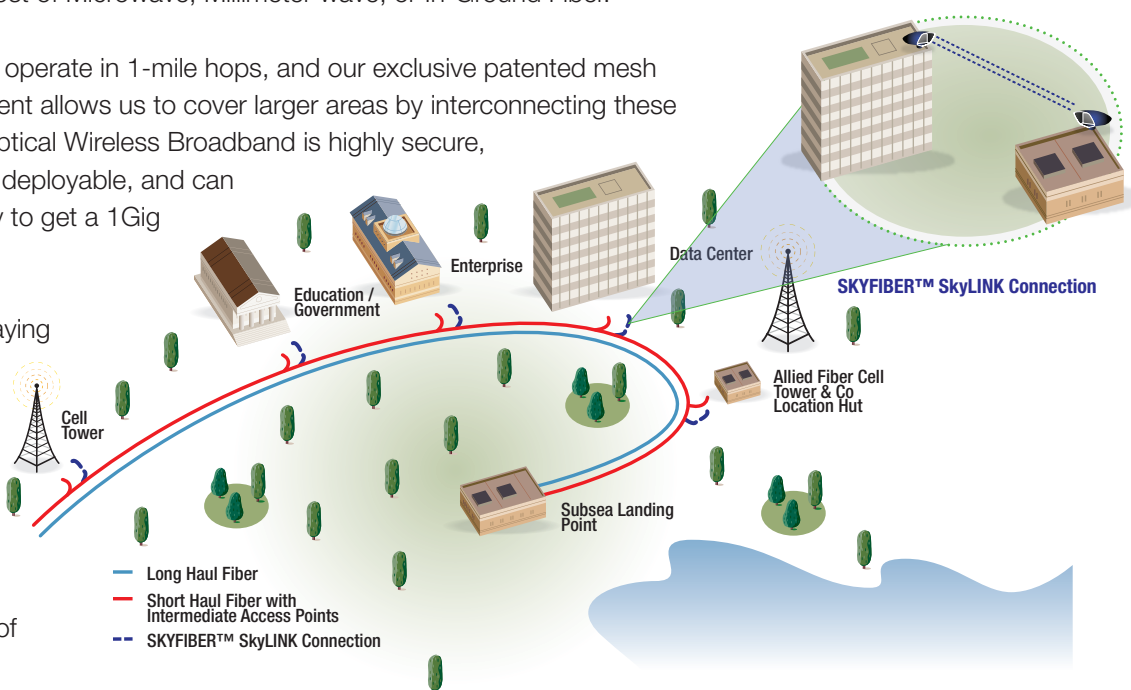
## SKYFIBER™ and Allied Fiber

*The astonishing gap in US Fiber availability continues -- Vertical System's latest study found that as of the end of 2009, still less than 25% of U.S. commercial buildings with twenty or more employees have fiber access. There is a large demand for broadband that is not being fulfilled, and it will take innovative technologies like SKYFIBER's Optical Wireless Broadband to meet this demand, especially to reach locations that have logistical & cost barriers to last-mile fiber connections.*

SKYFIBER's innovative next-gen Optical Wireless Broadband (OWB) technology offers a new option for connecting Operators to Allied's Dark Fiber Network, that provides unique benefits. SKYFIBER's Optical Wireless Broadband (OWB) technology uses infrared light to deliver over 1Gbps of Broadband connectivity at a fraction of the cost of Microwave, Millimeter wave, or In-Ground Fiber.

Individual OWB links operate in 1-mile hops, and our exclusive patented mesh networking deployment allows us to cover larger areas by interconnecting these links. SKYFIBER's Optical Wireless Broadband is highly secure, compact, and easily deployable, and can take as little as a day to get a 1Gig link up and running.

In many situations, laying Optical Fiber is not possible because permits cannot be obtained or the cost is too great, and Microwave RF is also not a usable solution due to lack of available licensed frequencies, or the unlicensed band is congested and unreliable.



In these scenarios, and in any scenario where cost is a major deciding factor, Optical Wireless Broadband provides a solution that delivers mega Bandwidth at an unbeatably low cost, providing a simple and reliable backhaul connectivity solution to access Allied Fiber's Dark Fiber Network. Operators can connect to the Allied Fiber infrastructure using SKYFIBER within four days, bridging the gap between wireline and wireless infrastructure, and providing the reliable broadband connectivity that is demanded by next-generation, wireless users.

The Allied Fiber network is the first of its kind, designed to provide a cost-effective, open-architecture, carrier-neutral Fiber Optic backbone that can reach previously unserved and under-served areas of the country. Allied Fiber provides cost effective access to carriers and end-users alike, and its network routes are lined with colocation facilities and fiber-fed cell towers. This national network of Dark Fiber is brimming with untapped opportunity, and SKYFIBER offers a cost-effective solution for backhaul and middle-mile connectivity to access Allied Fiber's infrastructure. By leveraging the strength and reach of Allied Fiber's Dark Fiber Network, together with SKYFIBER's cost effective Broadband solution, network operators can extend the reach of their networks and provide wide-scale, profitable wireless broadband solutions to their customers.





OPTICAL LENS UNIT

COMMUNICATION  
SERVICE  
TERMINAL

OLU Description		CST Description	
Description	Fixed Optics System	Dimensions	8.6" (W) x 9.1" (D) x 1.7" (H)
Receiver/Transmitter(s)	One transmitter, one receiver	Unit Weight	1.6 kg (3.5 lbs)
Dimensions	8.1" (W) x 13.4" (L) x 5" (H)	Operating Voltage	+/- 48 V DC (converters available)
Unit Weight	5.1 kg (11.4 lbs)	Operating Temperature	0° to +45° C (32° to 113° F)
Operating Temperature	-40° to +65°C (-40° to 149°F)	Humidity Range	Up to 95% non-condensing
Humidity Range	Up to 95% non-condensing	Power Input	-42 to -60Vdc Dual feed (A/B)
Power Input	-42 to -60Vdc Dual feed (A/B)	Power Consumption	15W
Maximum Power Consumption	20W	Network Management	SNMPv3
Immune to EMI & RF Interference	Yes	External Interfaces	3 Copper (GE/FE RJ45)
Built-In Active Alignment	Yes		1 Fiber GE/FE (SFP or RJ45)
Built-In Lens Heater and Anti-Fog Coating	Yes		

## SKYFIBER's SkyLINK DELIVERS

- High-Capacity Broadband up to 1.25 Gbps
- No Capital Expenditure
- High Security and Reliability
- Low Power Consumption
- No Licenses or Permits Needed
- No RF Interference
- Deployment in as little as 1 Day

## SKYFIBER's Solutions Key Advantages

**Massive Bandwidth:** Speeds up to 1.25Gbps, with future upgrades to 2.5 & 10 Gbps.

**Zero Sunk Cost:** On-Demand delivery means bandwidth delivered at a fraction of the cost of competitors, with no up-front equipment investment required.

**Compact & Portable:** SKYFIBER's small size means that not only is it unobtrusive, but can be easily redeployed to other locations as your needs change.

**Maximum Security:** SKYFIBER's virtually 100% secure beam is not visible or susceptible to the interference and security issues that make RF communications so vulnerable, nor can it be compromised through a physical tap, unlike fiber optic cables.

**Rapid Deployment:** SKYFIBER's ease of deployment puts it in a class by itself. Microwave RF can take 3 to 6 months to acquire permits, purchase licenses, and install equipment. Deploying Fiber Optic systems can consume up to a year of lost profits due to permits and costly construction. In contrast, SKYFIBER's OWB system can be deployed in a matter of hours, with no need for frequency licensing or time consuming and expensive trenching.

**Low Environmental Impact:** SKYFIBER's solutions require minimal to zero footprint, have low power consumption, and do not cause RF pollution like Microwave RF and other wireless radio delivery systems. Unlike Fiber Optics, SKYFIBER doesn't require environmentally invasive trenches to be dug that generate noise, pollution and excessive carbon footprints.

**Reliability & Confidence:** SKYFIBER's expert-designed network solutions provide carrier-grade reliability, and with SKYFIBER's On-Demand bandwidth, part replacement is provided throughout your ownership.

## WIRELESS BACKHAUL MADE SIMPLE:

SKYFIBER DELIVERS LOW-COST,

HIGH-CAPACITY, RELIABLE

BROADBAND SOLUTIONS.

## SKYFIBER™

Founded in 1996, SkyFiber, Inc. delivers patented Optical Wireless Broadband networking products that address the rapidly growing global requirements for fast, secure and affordable high capacity wireless networking solutions.

SKYFIBER™ is a privately held corporation of 60+ employees, with offices in Bryan, TX, Dallas, TX, Philadelphia, PA, San Jose, CA, and a partner network that spans the globe. SKYFIBER solutions can economically augment or replace traditional fiber optic and microwave technologies to meet customer needs for wireless backhaul, enterprise and campus area networks, last-mile extension, private data networks, emergency response networks, and a variety of revenue generating opportunities for municipalities.

SKYFIBER markets its solutions into the Enterprise and Telecommunications global markets and is expanding market penetration by developing strategic partnerships to identify referral opportunities and to provide implementation services.

## Allied Fiber

Allied Fiber was created to address America's need to eliminate obstacles for broadband access, wireless backhaul and lower latency through new, next generation long haul dark fiber construction with sound principles and an open access philosophy.

The Allied Fiber team is a collection of experts in the fields of communications, network construction and finance. They are all dedicated to building and providing access to an abundant supply of dark fiber in areas where it is most needed.

- Allied Fiber is a carrier neutral provider of dark fiber with a national footprint.
- Allied Fiber addresses the lack of accessible dark fiber in the market by making carrier neutral dark fiber available.
- Allied Fiber is substantially diverse from all existing long-haul networks.
- Allied Fiber is meeting the increased demand with 432 fiber strands in each duct (up to three ducts).
- Allied Fiber is employing the most advanced fiber optic cables in its ducts to meet the ever increasing bandwidth demands for wireless, Video over IP and other advanced technologies.
- Allied Fiber is designing, owning and operating its own regeneration huts/colocation facilities along the network optimally placed for long/short-haul and wireless backhaul providers like SKYFIBER.



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EXPERIENCED AND PROVEN. INNOVATIVE AND VISIONARY. CUSTOMER DRIVEN.