



**SKYFIBER™**

## ***PRODUCT GUIDE***

FIBER CAPACITY AT 1/2 THE COST.  
RAPID DEPLOYMENT.  
NO SPECTRUM.



**IT'S TIME TO RETHINK BROADBAND**



# BROADBAND CAPACITY DRIVES SUCCESS

You need Broadband. You need it fast, you need it now, and you need it for the best possible price. SKYFIBER's Optical Wireless Broadband is the unique solution that can deliver a lower cost per megabit than Fiber or Microwave. Whether you need to supercharge your 4G Backhaul Network without using more spectrum, or connect critical buildings within a city's infrastructure, SKYFIBER is the innovative solution you have been looking for.



## WHAT EXACTLY IS OPTICAL WIRELESS BROADBAND?

*Optical Wireless Broadband (OWB) uses a beam of infrared light to transmit as much as **1 Gbps of bandwidth** across a 1.6 km distance for a fraction of the cost of traditional solutions like In-ground Fiber or Microwave. OWB is a point-to-point, line of sight technology, and can be used in a multitude of applications that can generate revenue and reduce your broadband costs.*

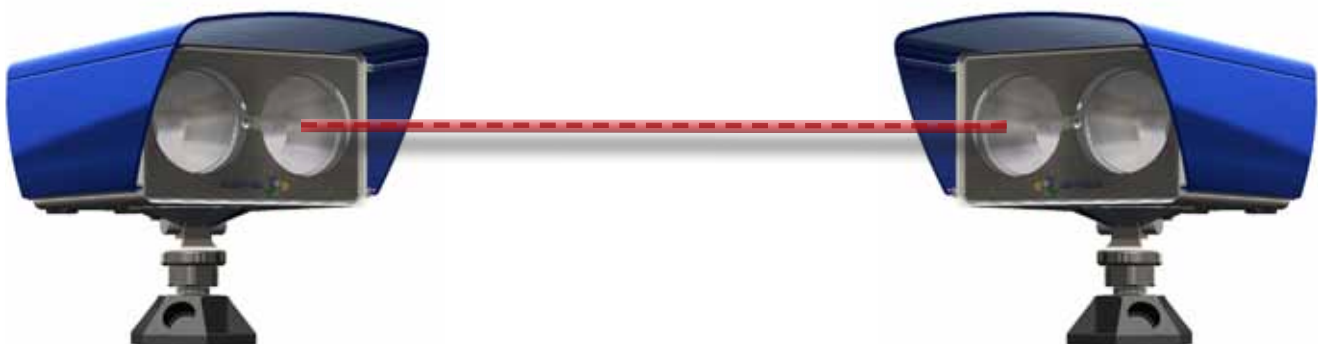
### SKYFIBER:

LOW COST

HIGH CAPACITY

RAPID DEPLOYMENT

NO SPECTRUM





# SKYFIBER FEATURES & BENEFITS



*SkyFiber Saves You: TIME, MONEY & EFFORT*

## LOWEST COST

The **lowest cost per megabit** in the industry: a lot of people say it, but we truly deliver it. SkyFiber's offering enables you to bring Gigabit bandwidths to your network for a fraction of the cost of microwave or fiber solutions.

## GIGA - CAPACITY

The capacity demand on data networks continues to grow at a phenomenal rate. SkyFiber delivers 1 Gigabit of broadband capacity today, and in the future we will offer 2.5 G and 10 G products.

## SIMPLICITY

SkyFiber needs no spectrum, no licensing, no permits, and can be deployed in as little as one day. If you are looking for the solution that can solve your bandwidth needs with the least amount of effort possible, this is it.

## HIGH SECURITY

Our untraceable infrared technology ensures that your data is completely secure at all times. Optical Wireless Broadband is impervious to the security issues that plague RF wireless technologies.

## RELIABILITY

SkyFiber's unique proprietary features including Active Tracking, Forward Error Correction, and Protection-Switching ensure high reliability for your critical data streams.

## ECO - FRIENDLY

With up to 30% less power consumption than our competitors, SkyFiber's compact, patented design allows us to deliver the smallest physical footprint and carbon footprint in the industry.

# SKYFIBER APPLICATIONS

## ENTERPRISE CAMPUS

Small Businesses, Universities, Healthcare facilities, Financial institutions and others in need of Broadband networks find the high-security of SkyFiber's OWB to be a perfect fit for their connectivity needs.

## SURVEILLANCE AND SECURITY

Virtually impossible to intercept, no other technology has the level of security that SkyFiber's Optical Wireless Broadband provides, excellent for backhauling high-capacity security camera data.

## MUNICIPALITIES

SkyFiber easily connects a communities' anchor institutions providing connectivity and backhaul for city government, facilities, emergency responders, surveillance systems, and sensor networks.

## SMALL CELL DEPLOYMENT

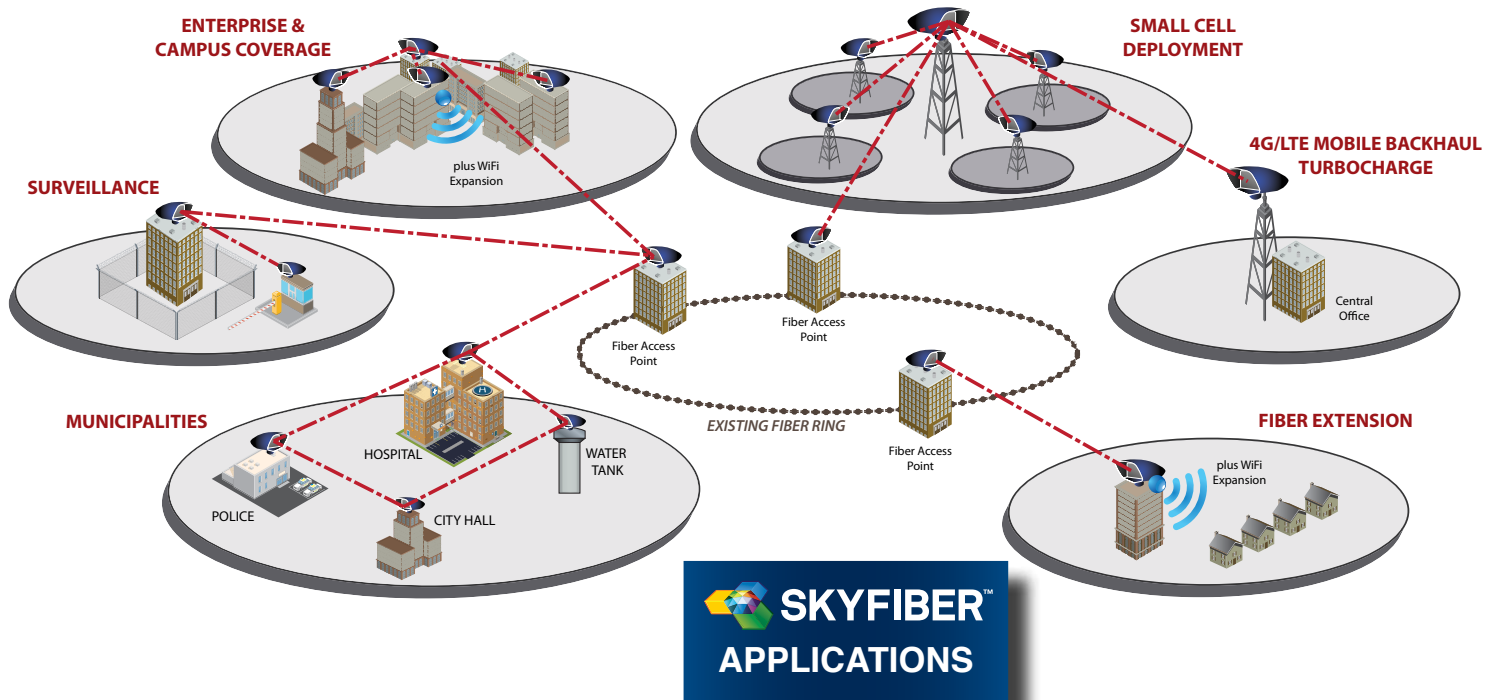
SkyFiber's OWB enables you to rapidly expand your mobile coverage and increase network capacity in high-density areas by injecting a turbo-charge of bandwidth into congested macrocell sites.

## TURBOCHARGE 4G/LTE BACKHAUL

The bandwidth demands being generated by global 4G roll-out continues to grow, and SkyFiber's solution offers a cost-effective way to expand your network capacity with easy-to-deploy OWB backhaul.

## FIBER EXTENSION

Make the most of your existing Fiber capacity, reduce your dependence on leased lines, and save valuable CapEx dollars by using SkyFiber to cover last-mile hops to your end user.



	SKYFIBER™ Outdoor Lens Unit Optical Wireless Broadband (Please Note: Not to scale)		Wi-Fi Networks Wide Area Networks
	Infrared Light Beam Non-visible light		Underground Fiber Connection

# PRODUCT PORTFOLIO

## SkyLINK

Our Flagship product delivers a secure, reliable point-to-point Optical Wireless Broadband link, providing 1 Gbps of bandwidth over distances of up to 1.6 km per link. SkyLINKs can be mesh-networked together to cover larger areas.



### Optical Lens Unit (OLU)

Dimensions	13cm x 23cm x 34cm 5.0" x 9.1" x 13.4"
Weight	5.1 kg (11.2 lbs)
Temperature	-40° to +65° C
Humidity Range	Up to 95%
Built-In Active Alignment	Yes
Power Input	42 to 57V DC
Power Consumption	Typical 15W, 35W Max

### Optical Wireless Link

Link Data Rate	125Mbps or 1.25Gbps
Available Link Budget	45.5 dB (without FEC)
Operational Range	1,600m
Wavelength	860 nm
Forward Error Correction	Yes
Maximum Distance @ rain margin	1000 m @ 20 dB/km 1600 m @ 10 dB/km
Mounting Structures	Buildings & Stable Structures

### Regulatory

Compliance	FCC, RoHS, UL/CSA, CE, FDA/CDRH
Laser Safety	IEC Class 1

## SkyTOWER

Designed specifically for the needs of tower-to-tower transmission, the new SkyTOWER product uses rapid-tracking technology to accommodate the sway and movement of flexible structures, cell towers, and stable monopoles.



### Optical Transceiver Unit (OTU)

Dimensions	18cm x 25 cm x 61 cm 7.2" x 10.0" x 23.9"
Weight	8.6 kg (19 lbs)
Temperature	-40° to +55° C
Humidity Range	Up to 95%
Built-In Active Alignment	Yes
Power Input	42 to 57V DC
Power Consumption	Typical 35W, 50W Max

### Optical Wireless Link

Link Data Rate	125Mbps or 1.25Gbps
Available Link Budget	45.5 dB (without FEC)
Operational Range	1,600m
Wavelength	860 nm
Forward Error Correction	Yes
Maximum Distance @ rain margin	1000 m @ 20 dB/km 1600 m @ 10 dB/km
Mounting Structures	Buildings, Cell Towers, and Stable Monopoles

### Regulatory

Compliance	FCC, RoHS, UL/CSA, CE, FDA/CDRH
Laser Safety	IEC Class 1



*Contact us today to find out how  
Optical Wireless Broadband can  
solve your Broadband needs!*

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