SKYFIBER™

SOLUTIONS BRIEF

SkyLINK OVERVIEW

By 2016, there will be over 1,300 exabytes of mobile data traffic moving across the global telecommunications network annually. Today's economic dependence on global network connectivity has resulted in unprecedented demands for greater capacity, faster speeds and higher quality broadband coverage to support the proliferation of voice, data, and video content in both wired and mobile enterprises.

As of 2011, over 70% of all U.S. commercial buildings still do not have fiber access.

In today's economy, both Carriers and Enterprises alike need a cost effective way to keep up with the explosion in broadband demand. With 16 years of industry experience, SKYFIBER leverages over a decade of product innovation to deliver patented Optical Wireless Broadband (OWB) mesh networks that allow customers to rapidly expand the capacity of their networks. SKYFIBER's SkyLINK product offers rapidly-deployable, high capacity broadband at very low cost, as little as one-tenth the cost of in-ground fiber. OWB is free of the licenses, permits, and right-of-way constraints of other traditional solutions. At a time when the telecommunications industry is in need of truly innovative technology to deal with increasing capacity demands, SkyLINK offers a high-performance solution that removes the cost of entry and time-to-market barriers inherent in other broadband solutions.

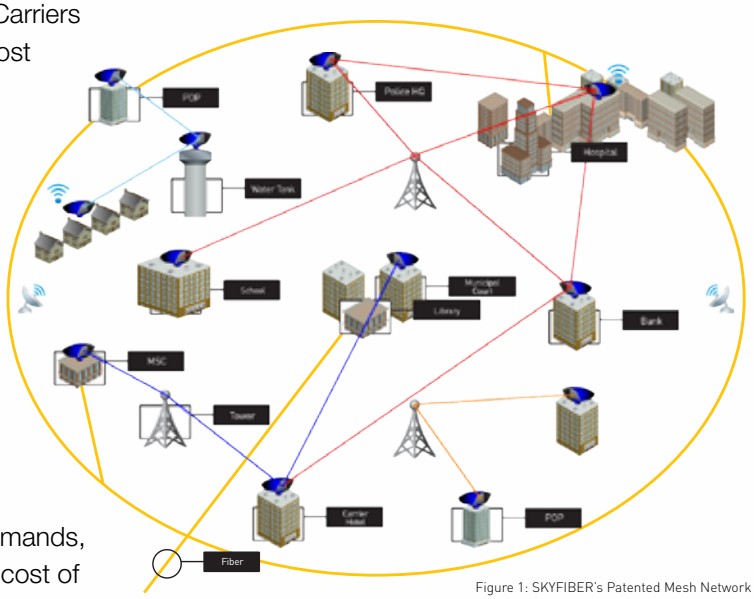

Figure 1: SKYFIBER's Patented Mesh Network

SKYFIBER's SkyLINK

SKYFIBER's 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. Using our patented mesh network deployment, SkyLINKs can also be combined to cover larger areas.

SKYFIBER Applications

- Wireless Backhaul and Overlay Networks
- Fiber Extension and Last Mile Access
- Enterprise Business Connectivity
- Healthcare and Campus Solutions
- Municipalities and Local Government
- Security and Surveillance Networks

SkyLINK Specifications

Outdoor Lens Unit (OLU)	
Description	Fixed Optics System
Dimensions	20.6cm(8") x 34cm(13.4") x 12.7cm(5")
Unit Weight	5.1 kg (11.4 lbs)
Operating Temperature	-40° to +65° C (-40° to 149° F)
Humidity Range	Up to 95% non-condensing
Immune to EMI & RF Interference	Yes
Built-In Active Alignment	Yes
Built-In Lens Heater & Anti-Fog Coating	Yes
Optical Wireless Link	
Link Data Rate	125Mbps, 1.25Gbps
Available Link Budget	48dB
Operational Range	250m to 1,600m (1.1mrad system)
Optical Wireless Wavelength	860 nm
Forward Error Correction	Yes
Inter-connect Cables (ICC)	
Description	Connects CST and OLU
Fiber	Multi-mode Fiber
Control	Cat5
Regulatory	
Compliance	FCC, RoHS
Laser Safety	Class 1M (1.1mrad system)
Communications Service Terminal (CST)	
Dimensions	21.8cm (8.6") x 23cm (9") x 4.5cm (1.8")
Unit Weight	3.5 kb (1.6lbs)
Operating Temperature	0° to +45° C (32° to 113° F)
Humidity Range	Up to 95% non-condensing
Power Input	-42 to -60Vdc Dual feed (A / B)
Power Consumption	15W
Client Interfaces	Up to 4 10/100/1000 Ethernet Ports
Communications Service Terminal (CST)	**Operations**
User Interfaces	SNMP v2, Web (HTML), CLI
Local Access	FE port or RS-232 (CLI only)
Remote Access	In-Band or Out-of-Band
SW Upgrade Capability	Remote & Non-service affecting
Reset Flexibility	Push button and Remote
Terminal Status LED's	Power, Alarm, Tx, Rx, Client
Performance Monitoring	Yes
VLAN Tagging / Switching	Yes
Client Interfaces	
External Interfaces	3 Copper (GE/FE RJ45) 1 Fiber GE/FE (SFP or RJ45)
Aggregation support	Yes
Per port rate limiting	Yes
Flow control	Yes
QoS support	Yes

SkyLINK's Key Advantages

- High Bandwidth
- Low Cost
- Rapid Deployment
- Reliable and Secure
- Patented Architecture
- Green Technology

Contact Us

For further information on SKYFIBER™ products and solutions, please contact sales@skyfiber.com

Or visit us on the web at www.skyfiber.com.