

Wavebridge Family



The Wavebridge series of Free Space Optical (FSO) fixed wireless products offers a cost-effective, last-mile solution ideal for LAN extensions, disaster recovery, voice, data and video service providers, ISP's, etc.

License free!

Plaintree's FSO products allow network deployment without applying for expensive frequency licensing permits.

Eliminate Interference!

FSO is an attractive alternative to microwave or radio frequency systems given its resilience to interference and frequency overlap.

Secure!

Free Space Optics is the most secure Layer 1 technology available in the market. It is rated more secure than fiber, copper, radio and microwave.

Plaintree's Wavebridge ULTRA-WIDE beam is up to 10 times wider than the competition giving you a robust easy to align optical footprint.

WaveBRIDGE

WAVEBRIDGE™

Plaintree offers a wide range of point-to-point scalable wireless solutions. Wavebridge products are suitable for applications ranging from 1 to 155Mbps.

The Wavebridge 300 Series is designed for short range indoor and window-to-window applications. Easily installed and transportable - ideal for media events, disaster recovery, or crossing the street. This product range supports 1 to 100Mbps and has a maximum distance of 500 meters. The Wavebridge LS-series is the outdoor version of the 300 series and is ideal for short range outdoor applications such as across the street communications.

The Wavebridge 400 Series provides a low cost outdoor solution, supporting speeds from 1 to 100Mbps and a maximum distance of 1000 meters. This product series is widely used by private businesses, ISP's and property managers.

The Wavebridge 500 Series is our best selling product, providing a longer range outdoor solution with a maximum distance of 2000 meters and speeds from 1 to 100Mbps.

The Wavebridge 600 Series provides full duplex data throughput up to 100/155 Mbps Clear Channel at 500 meters. This product is ideal for proprietary optical signals up to 155 Mbps, including ATM, SDH and SONET applications. Commercial customers can access the Metro fiber ring by using this license free transceiver.

All Wavebridge products are secure, license free and are not subject to frequency interference or overlap. Available interfaces are E1, T1, 4xE1, 10Mbps, 100Mbps, 155Mbps, and the multiplex version which combines 10 Mbps + E1/T1. Please refer to our product matrix for more information or call now at 1-888-831-8300

Wavebridge FSO Benefits

- ✓ No frequency licensing
- ✓ No interference
- ✓ No digging or planning requirements
- ✓ Easily re-deployed
- ✓ Rapid and easy installation
- ✓ Unconditionally eye - safe Class 1 (IEC)

Product Matrix

WaveBridge 300 Series (indoor)

WB310	500m	10Mbps
WB3T1	500m	T1
WB3E1	500m	E1
WB3MT	500m	10Mbps + T1
WB3ME	500m	10Mbps + E1
WB3100	250m	100Mbps

WaveBridge 500 Series (outdoor)

WB510	2000m	10Mbps
WB5MT	2000m	10Mbps + T1
WB5ME	2000m	10Mbps + E1
WB5T1	2000m	T1
WB5E1	2000m	E1
WB5T4	2000m	4 x T1
WB5E4	2000m	4 x E1
WB5100	1000m	100Mbps

WaveBridge 400 Series (outdoor)

WB410	1000m	10Mbps
WB4MT	1000m	10Mbps + T1
WB4ME	1000m	10Mbps + E1
WB4T1	1000m	T1
WB4E1	1000m	E1
WB4T4	1000m	4 x T1
WB4E4	1000m	4 x E1
WB4100	500m	100Mbps

WaveBridge 600 Series (outdoor)

WB600a	500m	150Mbps
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WaveBridge LS Series (outdoor)

WBL010	500m	10Mbps
WBL0T1	500m	T1
WBL0E1	500m	E1
WBL0MT	500m	10Mbps + T1
WBL0ME	500m	10Mbps + E1
WBL0100	300m	100Mbps

Product Specifications

	WB300/LS	WB400	WB500	WB600
Typical range	Up to 500m	Up to 1000m	Up to 2km	Up to 500m
Transmitter	LED – Class 1	LED – Class 1	LED – Class 1	LED – Class 1
Wavelength	800-900nm	800-900nm	800-900nm	800-900nm
Beam width	17mrad	17mrad	17mrad	11mrad
Power	-48V DC	-48V DC	-48V DC	-48V DC
Network Protocol	G.703, Ethernet	G.703, Ethernet	G.703, Ethernet	Clear Channel
Network Interface	RJ-45C (120 ohm) RJ-45 (100 ohm)	RJ-45C (120 ohm) RJ-45 (100 ohm)	RJ-45C (120 ohm) RJ-45 (100 ohm)	Fiber Optic 50C or FC Multimode - 1310nm
Operating Temperature	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C
Relative Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
Dimensions	8in x 5in x 5in (20cm x 13cm x 13cm)	18in x 13in x 9in (38cm x 32.3cm x 23cm)	18in x 18in x 9in (38cm x 40cm x 23cm)	17in x 10in x 17in (43cm x 25cm x 43cm)
Weight	2.2lbs (1kg)/10lbs (4.5kg)	17lbs (7.7kg)	20lbs (9kg)	28lbs (11.8kg)

Optional Accessories

- > 120V AC and 240V AC power converters
- > RG-59 (75 ohm) connectors for E1 and T1 interfaces
- > Heater subassembly for outdoor transmitters

Specifications subject to change without notice. Distances based on clear weather conditions. See White Paper on Optical Path Length at www.plaintree.com. Distances and coverage of indoor units may be reduced by random attenuation.

Contact Details

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