

# WAVEBRIDGE®

by Plaintree Systems



Plaintree's WAVEBRIDGE® technology is designed for SMB, Enterprise, Service Providers, Military and Power Users.

WAVEBRIDGE® is the perfect alternative to copper or fiber cables, with the performance of fiber at a fraction of the cost.

## WAVEBRIDGE® XT Series

The WAVEBRIDGE® XT optical wireless system uses LED (Light-Emitting Diode) technology to provide a Local and Wide Area Networking alternative to wire line, fiber, leased circuits, and radio frequency (RF) solutions.

The XT WAVEBRIDGE® series is designed for long-range outdoor applications with a distance of 1000m -3500m in clear weather conditions. The XT series can be used as a bridge to extend or replace conventional cabling systems for longer applications. These are easily installed and provide a wide LED beam for easy alignment and high throughput margins.

The XT series offers a cost alternative to fiber when connecting buildings, networks or custom projects through line-of-sight technology. With a throughput of 10 -100Mbps, zero interference from microwave or RF frequencies, secure transmission, and rapid deployment, the XT Series is the perfect network extension device for data/voice and video applications.

## Free Space Optics Advantages

**100% Eye Safe** - Plaintree's FSO units are 100% Class 1 eye safe.

**Ease of Installation** - Mounted and configured within a couple hours.

**Custom Power** - With POE, 12VDC, 48VDC or custom solar.

**Redundant Back-up** - RF or FSO rollover back-up 100 Base-Tx Port.

**LED Wide Beam** - For sway, wind, ease of alignment and reliable link margins.

**Secure** - WAVEBRIDGE® is virtually 100% secure LED Infrared beams.

**License Free** - No license's, right-of-way permits, or frequency allocations cost

**Building to Building Bridge**  
**Point-to-Point LAN Extension**  
**Voice, Data and Video**  
**Wi-Fi Hotspot**  
**Cellular Networks**  
**Emergency Communications**  
**Media Events**  
**Coverage Over Obstacles**

**Secure. Reliable. High Speed.**

## WAVEBRIDGE® XT Series

With its large optics and strong mounting, the series is perfect for connecting your buildings together over greater distance. Worldwide Enterprise and SMB's who are looking to extend their LAN network quickly with a high return on investment (ROI).

### XT Series Specifications

Model	WBXT10	WBXT100	WBXT155	WBXT T1/E1	WBXT T4/E4
Data Rate	10Mbps Full Duplex	100Mbps Full Duplex	155Mbps Full Duplex	1 x 1.54 Mbps or 1 x 2.048 Mbps	4 x 1.54 Mbps or 4 x 2.048 Mbps
Distance (meters)	3000m	2000m	2000m	4000m	3000m
Network Protocol	Ethernet	Fast Ethernet	Clear Channel	ATM	ATM
Network Interface	10Base-T (RJ45) x1	100Base-Tx (RJ45) x1	SPF- LC Fiber Connect	1 x RJ48C	4 x RJ48C
Transmitter	IR - LED Class 1	IR -LED Class 1	IR - LED Class 1	IR - LED Class 1	IR - LED Class 1
Wavelength	800-900nm	800-900nm	800-900nm	800-900nm	800-900nm
Beam width	17mrad	17mrad	17mrad	17mrad	17mrad
Power	POE or 48V DC	POE or 48V DC	48V DC	48V DC	48V DC
Housing	Weatherproof	Weatherproof	Weatherproof	Weatherproof	Weatherproof
Operating Temp.	-40° C to 70° C	-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%	5% to 95%
Dimensions	19" x 11" x 32"	19" x 11" x 32"	19" x 11" x 32"	19" x 11" x 32"	19" x 11" x 32"
Weight	15Kg, 30lbs	15Kg, 30lbs	15Kg, 30lbs	15Kg, 30lbs	15Kg, 30lbs
Mounting Options	Wall/Tower, Roof, Non-penetrating	Wall/Tower, Roof, Non-penetrating	Wall/Tower, Roof, Non-penetrating	Wall/Tower, Roof, Non-penetrating	Wall/Tower, Roof, Non-penetrating

These specifications are subject to change without notice. Distances based on clean weather conditions.  
See White Papers-Optical Fade Margin at [www.plaintree.com](http://www.plaintree.com). Distance and coverage of indoor units may be reduced by window attenuation.  
Package does not include mounting options

#### Optional Accessories

SNMP Monitoring  
120V AC and 240V AC to 48V DC power converters  
RJ48c to RG-59 convertor for E1  
Power over Ethernet Injector  
Redundant Roll-Over Back-up  
Multiplex T1 and 4x100 Mbps,  
Roof, wall and tower mounting kits, Non-penetrating roof mounting tray

#### WORLD-WIDE SALES & DISTRIBUTION

**Toll-free number: +1-888-831-8300**

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