



TrangoLINK-10A™

5.8 / 5.3 GHz

Dual-Band Outdoor Wireless Ethernet Bridge



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The TrangoLINK-10A™ point-to-point wireless Ethernet bridge offers long range and dual band flexibility in an easy to install, ruggedized package. Delivering up to 10 Mbps, the TrangoLINK-10A can be deployed as a backhaul system or as a wireless alternative to leased line and multiple T1 circuits.

Product Highlights

• FLEXIBILITY

The TrangoLINK-10A provides channels of operation in both the license-exempt 5.8 GHz ISM and the 5.3 GHz U-NII bands. Dual polarized antennas, combined with 11 non-overlapping channels provide 22 channel/polarity combinations for maximum frequency agility. Antenna polarity and channel selections are remotely switchable, and selectable receiver threshold provides additional interference mitigation.

• LONG RANGE

The TrangoLINK-10A offers a range of 16 km using internal antennas and up to 64 km using optional external antennas on the TrangoLINK-10A-EXT.

• SPEED

The TrangoLINK-10A efficiently delivers 10 Mbps of real throughput for high-bandwidth backhaul applications.

• MANAGEABILITY

The TrangoLINK-10A provides users with powerful remote management tools via telnet and web-browser interfaces as well as SNMP. TrangoLINK-10A's SmartSEEK™ redundancy feature provides continuous search and reassociation functionality.

• SECURITY

The TrangoLINK-10A utilizes direct sequence spread spectrum technology, providing excellent range and immunity to interference. MAC authentication, coupled with transmission scrambling provides a high degree of over-the-air security.

• DURABILITY, EASE OF INSTALLATION

The TrangoLINK-10A is designed for harsh outdoor environments and operates from -40° to +140° F. Additionally, the system's Power-over-Ethernet capability ensures easy installation and quick deployment.

• AFFORDABILITY

The TrangoLINK-10A offers carrier-class features and performance at an attractive price.

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TrangoLINK-10A™ Specifications

KIT INCLUDES

- 1 P583AS-M Master Radio†
- 1 P583OS-R Remote Radio†
- 4 Mounting U-Brackets
- 2 24VDC Power Supplies
- 2 PoE J-Boxes
- 1 Serial Programming Cable



RADIO PARAMETERS

<i>Frequency of Operation</i>		High Band (ISM Band): 5.725 GHz to 5.850 GHz Low Band (U-NII Band): 5.250 GHz to 5.350 GHz		
<i>Channels</i>		High Band (ISM Band): 6 non-overlapping channels Low Band (U-NII Band): 5 non-overlapping channels		
Antenna Type		<i>Internal Antenna</i>	<i>AD5830-23-DP (15" Panel)</i>	<i>SPD3-5.2T (36" Dish)**</i>
<i>Antenna Gain</i>		18/17 dBi ISM/U-NII band	24 dBi	31 dBi
<i>5.8 GHz ISM Band</i>	<i>EIRP††</i>	40 dBm††	46 dBm††	53 dBm††
	<i>Range</i>	14 kilometers	32 kilometers	64 kilometers*
<i>5.3 GHz U-NII Band</i>	<i>EIRP††</i>	36 dBm††	43 dBm††	50 dBm††
	<i>Range</i>	9 kilometers	24 kilometers	56 kilometers
<i>Beamwidth (azimuth/elevation)</i>		18°/18°	9°/9°	4°/4°
<i>Antenna Polarity</i>		Horizontal/vertical (software switchable)		

DATA AND OPERATIONAL PARAMETERS

<i>Modulation Format</i>	Direct Sequence Spread Spectrum (DSSS) with RAKE
<i>Certification/Compliance</i>	FCC Part 15.247
<i>Receiver Sensitivity</i>	(1E10-6 BER) 1600 byte packets: -83 dBm, 64 byte packets: -87 dBm
<i>User Data Throughout</i>	Up to 10 Mbps
<i>Latency</i>	<2mSec (10 miles or less)
<i>Network Protocols</i>	All IEEE 802.3/802.3u compliant protocols
<i>Configuration and Management</i>	Telnet, SNMP, TFTP, HTTP, Serial
<i>Up/Downstream Throughout</i>	Dynamic, automatically adjusts to suit demand with upstream and downstream MIR
<i>Ethernet Packet Size</i>	Up to 1600 byte long packets (supports VLAN/VPN pass through)

PHYSICAL INTERFACES

<i>Ethernet (via shielded RJ45)</i>	10/100 BaseT, auto-sense, auto-negotiate
<i>Serial (via RJ11)</i>	9600 baud 8-N-1

POWER PARAMETERS

<i>Power Method</i>	Power-over-Ethernet (PoE) via DC voltage injected at PoE J-box
<i>Voltage Input Limits into Radio</i>	10.5 VDC – 24 VDC
<i>Standard Power Supply</i>	120 VAC to 24 VDC adapter
<i>PoE Cat-5 Max Cable Length</i>	100 meters on 24 AWG STP Cat-5 cable
<i>Power</i>	575 mA (13.8 W); 1 Amp when heater is on (24 W)

PHYSICAL AND ENVIRONMENTAL

<i>Radio Enclosure</i>	All-weather, powder coated, cast aluminum with polycarbonate radome
<i>Temperature Range</i>	-40° to 60° C (-40° to 140° F)
<i>NEMA Rating</i>	NEMA 4
<i>Radio Dimensions</i>	12.5" x 8" x 2.75"
<i>Radio Weight</i>	4 lbs.
<i>Shipping Weight</i>	20 lbs. (without external antennas)
<i>User Interfaces</i>	RJ45 (shielded) and RJ11

Specifications are typical and subject to change without notice.

†† Not licensed for use in the U.S.A. Legal regulations for wireless communications vary from region to region—users are responsible for complying with their region's regulations.

* User throughput 7.2 Mbps max at 64 kilometers

** Available from Radiowaves (www.radiowavesinc.com) and Radiowaves distributors

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