

Description

The TeraBridge™ EX-1 is a license-free digital microwave radio that provides cost-effective, wireless point-to-point Ethernet bridging. It operates on the Unlicensed National Information Infrastructure frequency spectrum (UNII). The EX-1 offers 8 Mbps full duplex throughput (16 Mbps aggregate) on eight frequency channels that are user selectable. The system is FCC Certified for license-free operation with 1 foot and 2 foot antennas.

The EX-1 provides full-duplex operation in the 5.3/5.7 GHz frequency bands in accordance with the FCC Rules part 15.407. The EX-1 requires no special tuning or adjustments at the site; just install, align and connect to the existing LAN infrastructure via the 10 Base-T interface and the unit is up and transmitting data. This product is ideal for providing a high speed wireless backbone to Wireless Internet POPs (WIPOP). Line-of-sight path distances up to 7 miles or more in the U.S.A. are possible. Internationally, over 30 km with higher gain dish antennas can be achieved.



TeraBridge™ EX-1 Front View

Key Features

- Bridges 10 Base-T Ethernet LANs
- Totally transparent, passes all protocols
- 8 Mbps full duplex typical throughput (16 Mbps aggregate)
- Latency less than one msec
- Operates in a license-free UNII band
- Radio mounts right at antenna for virtually no cable loss
- Easy to install, easy to configure
- User adjustable transmit output power
- Received Signal Strength Indicator (RSSI) output on a BNC jack on rear panel
- Configuration DIP switch settable
- Eight user selectable channels available
- All weather outdoor enclosure
- Works with all 5.3/5.8 GHz directional antennas
- Can be used with vertical or horizontal polarized antennas
- Ideal for use as a WIPOP backbone link (keeps 2.4 GHz radio channels clear)



TeraBridge™ EX-1 Rear View

Specifications subject to change without notice

8000 Lee Highway, Falls Church VA 22042
Tel: (703) 205-0600 Fax: (703) 205-0610
Sales: 1-888-297-9090

www.terabeam.com

990 Almanor Avenue, Sunnyvale, CA 94085
Tel: (408) 617-8150 Fax: (408) 617-8151
Sales: 1-800-664-7060

Specifications

Frequency Band: Full-duplex operation in the Unlicensed National Information Infrastructure Spectrum: 5.3 and 5.7 GHz

Regulatory: Complies with FCC Ruling Part 15

Frequency Range: Eight selectable channels in the 5,250-5,350 MHz and 5,725-5,825 MHz bands

Throughput: 8 Mbps Full Duplex

Digital Interface: 10Base-T Ethernet

Cable Distance: Maximum 300 ft (100 meters)

Antennas (ordered separately): 1 foot, 23 dBi
2 foot, 27.5 dBi

Frequency Range: 5,250 - 5,350 MHz and 5,725 - 5,825 MHz

Performance Monitoring: Receive Signal Strength Indicator (RSSI)

Input Voltage Range Options: 100-240 VAC 50/60 Hz

Power Consumption: 17 watts maximum

Temperature Range: -30° to 60° C

Altitude: 4,500 meters (15,000 feet)

Enclosure: Outdoor, all-weather enclosure

Dimensions (HxWxD): 310 x 351 x 73mm (12.2" x 13.82" x 2.88")

Weight: 5 kg (11.02 lbs)

TX Output Power (switch selectable): +0 dBm
+4 dBm
+8 dBm
+12 dBm

Receiver Type: Coherent detection

Sensitivity: -83 dBm

System Includes

- 1 each 5.3 GHz TX/5.7 GHz RX outdoor radio
- 1 each 5.7 GHz TX/5.3 GHz RX outdoor radio
- 2 each RF jumper cable from radio to the antenna
- 110/220 VAC Power Supply
- DC Power Injector (to be used with single Data/Power cable version)
- 1 each Installation Manual

Note: Outdoor Ethernet cables ordered separately

FCC ID Numbers (US Only)

5.3 GHz (low band)	5.7 GHz (high band)
NM5-EX1-53	NM5-EX1-57

Ordering Information

Model	Terabeam P/N
EX1-LINK	604-900004-001

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