



License-Free Wireless Fast Ethernet Bridges (100BaseT)

The Tsunami wireless bridges provide full-duplex 100BaseT (fast Ethernet) connectivity under license-free regulations (ISM). Under these regulations, these radio bridges require no frequency coordination or licensing, resulting in 'instant' connectivity of 100BaseT access for line-of-sight distances beyond 15 miles.

Tsunami 100BaseT connections transport up to 45 Mbps full-duplex (90 Mbps total) for data communications. In addition a T1 connection is provided alongside the 100BaseT connection for direct PABX connectivity for combined voice and data WANs. Additional services such as voice orderwire and auxiliary data are also provided.

Tsunami wireless bridges provide high-speed connections that are more reliable than fiber or wire. These radios provide significant cost savings compared to leased-line connections and also allow fast and easy connections where wire or fiber access is impossible or too costly.

Applications

*The Tsunami wireless bridges are ideal for backbone connections of **ISPs** and **CLECs** to establish new points of presence. They also may be used for spurs to connect direct enterprise customers to the PoP.*

***Enterprises** may connect WAN and PABX connections between campus locations using the Tsunami.*

- No operating license required (in many countries)
- 45 Mbps full-duplex throughput (90 Mbps total)
- Wayside T1
- Frequency Range:
Single Channel: 5725-5825 MHz
Dual Channel:: 5250-5350 MHz & 5725-5825 MHz
- Compliant with FCC (United States) Part 15.401 (U-NII) and IC (Canada) RSS-210 (LE-LAN) rules
- Point-to-point communications from less than 1 mile to more than 15 miles
- Wide DC Power Input ± 20 to ± 63 V
- Wide operational temperature
- Built-in loopback, far-end monitoring and orderwire
- 2 Year Warranty





Tsunami

License-Free Wireless Fast Ethernet Bridges (100BaseT)

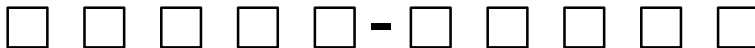
Specifications and Ordering Information

System		Auxiliary Connections	
Frequency Band (single Ch)	5725-5825 MHz	Orderwire Handset	2-wire, RJ-11
(dual Ch)	5250-5350 MHz & 5725-5825 MHz	VF Orderwire Bridge	600 Ω balanced, 4 wire, 0 dBm, DB25 female
Capacity	44.736 Mbps + T1	Diagnostics Port	RS-232 (craft), DB9
Antenna Connector	N-type female	NMS	10BaseT (HTTP, SNMP)
Output Power (single Ch)	≥+17 dBm, +20 dBm typical	Aux Data Port	RS-232/RS-422, ≤ 9600 baud, DB9
Output Power (dual Ch)	≥+10 dBm, +13 dBm typical	(Clear Service Channel)	2 Form C, 6 TTL, DB25
RF Attenuation Range	20 dB, minimum	Alarm Port	Output power, near & far-end RSL
Receiver Threshold	-79 dBm, BER=1x10 ⁻⁶	Test Points	T1 (DSX-1) or E1 ¹ (CEPT-1)
System Gain (single Ch)	97 dB	Wayside	
(dual Ch)	90 dB	Power/Environment	
Maximum Receive Level	-5 dBm, error free	DC Power	±20 to ±63 Volts, <45 Watts
Regulatory Compliance	FCC Part 15.401, Class B IC RSS210	Optional AC Adapter	100-250 Volts, 50-60 Hz
Data Interface		Power Connector	6-pin barrier strip, plug in
Fast Ethernet Interface	100BaseTX/FX	Operational Temperature	-30 to +65°C
Connector	RJ45/ST	Humidity	0 to 95% non-condensing
Compliance	IEEE 802.3	Altitude	15,000 feet, maximum
		Physical	
		Size (WxHxD) ²	17.2 x 3.5 x 14.5 inches (2RU)
		Weight	11 pounds

¹Wayside E1 interface only available on model 27710-52

²19-inch EIA rack mount, 2-unit height (mounting brackets supplied).

Ordering Information



System		Channel Options	
27710-51xxx	5.8 GHz Single Band w/T1	27710-51A1x	A1 channel Tx=5750 MHz, Rx=5800 MHz
27710-51xxx	5.8 GHz Single Band w/E1	27710-51A2x	A2 channel Tx=5800 MHz, Rx=5750 MHz
27700-51xxx	5.3/5.8 GHz Dual Band w/T1	-----	
AC/DC Adapter		27700-51A1x	A1 channel Tx=5284 MHz, Rx=5759 MHz
277x0-5xxx0	Without AC adapter	27700-51A2x	A2 channel Tx=5759 MHz, Rx=5284 MHz
277x0-5xxx1	With AC adapter	27700-51B1x	B1 channel Tx=5316 MHz, Rx=5791 MHz
		27700-51B2x	B2 channel Tx=5791 MHz, Rx=5316 MHz

Western Multiplex, 1196 Borregas Avenue, Sunnyvale, CA 94089-1302
 (408) 542-5200 Fax (408) 542-5300
www.wmux.com