Licensed Wireless Ethernet Bridges
(100BaseT + 1xT1)
23 GHz

The Tsunami wireless bridges provide full-duplex 100BaseT (Ethernet) connectivity under licensed regulations (Part 101). Under these regulations, these radio bridges require frequency coordination for line-of-sight connections.

This Tsunami 100BaseT transports up to 45 Mbps full-duplex (wire-speed Ethernet) for data communications. In addition, it offers T1 connection alongside the Ethernet 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 **ISP**s and **CLEC**s 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.*

- Full-duplex 100BaseT connections
- Wayside T1 included
- Frequency Range: (50MHz plan)
  23 GHz: 21.2 – 23.6 GHz
  (Three options of 8 channel pairs)
- Compliant with FCC (United States) Part 101 Rules and ETSI 300 198
- Point-to-point communications from less than 1 mile to more than 5 miles
- Wide DC Power Input ± 20 to ± 63 V
- Wide operational temperature
- Built-in loopback, far-end monitoring and orderwire
- 2 Year Warranty

Tsunami
Licensed Wireless Ethernet Bridges (100BaseT)

Specifications and Ordering Information

	Frequency Band	Digital Capacity	Threshold (BER=1x10^{-6})	Output Power (H/L)	System Gain
Model 27400	21.2 – 23.6 GHz	45 Mbps full-duplex	-77 dBm	+23/17 dBm	100/94 dB

System

Antenna	Directly coupled
Antenna Connector	WG Flange Integral
Maximum Receive Level	-20 dBm, error free
Regulatory Compliance	FCC Part 101 ETSI 300 198

Data Interface

Digital Interface	100BaseTX (Cat 5) 100BaseFX (SC)
Compliance	IEEE 802.3

Auxiliary Connections

Orderwire Handset	2-wire, RJ-11
VF Orderwire Bridge	600 Ω balanced, 4 wire, 0 dBm, DB25
Diagnostics Port	RS-232/RS-422 (craft/TBOS), DB9
Aux Data Port (Clear Service Channel)	RS-232/RS-422, ≤ 9600 baud, DB9
Alarm Port	2 Form C, 6 TTL, DB25
Test Points	Output power, near & far-end RSL
Wayside[1]	T1 (DS-1)

Power/Environment

DC Power	±20 to ±63 Volts, <95 Watts
Optional AC Adapter	100-250 Volts, 50-60 Hz
Power Connector	6-pin barrier strip, plug in
Operational Temperature	-30 to +60°C ODU -5 to +50°C IDU
Humidity	0 to 95% non-condensing
Altitude	15,000 feet, maximum

Physical

Size (WxHxD)[2]	17.2 x 3.5 x 14.5 inches (2RU) IDU 8.0 x 10 x 4.5 inches (ODU)
Weight	IDU 6.7 pounds ODU 11.4 pounds

[2]19-inch EIA rack mount, 2-unit height (mounting brackets supplied).

Ordering Information

System # (from list above)
27400-51XXPSS
XX = Channel option
P = Optional power supply
SS = Antenna size
AC/DC Adapter Option Available

Channel Options

A1/A2	21225 – 22675 / 22425 – 22775 MHz
B1/B2	21525 – 22975 / 22825 – 23175 MHz
C1/C2	21825 – 23275 / 23225 – 23575 MHz

Antenna sizes: 1, 1.5, 2 , 2.5, 4 or 6 foot

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