



Cost-Effective Gigabit-Speed Capacity

The Tsunami wireless Gigabit Ethernet bridge is the world's first 1000BaseSX system to provide wireless gigabit point-to-point connectivity while preserving native IP. Tsunami Gigabit meets the ever-growing demand for greater WAN/MAN bandwidth at a significantly lower cost than fiber solutions.

Tsunami Gigabit is an ideal alternative to multiple T1s or fiber-optic cable and can be used to extend or provide redundancy to existing fiber networks.

Tackle Your Toughest Bandwidth Problems

Tsunami wireless Gigabit Ethernet bridges deliver carrier-class wireless solutions that meet critical connectivity needs for:

- Enterprise IT managers building out their private networks by creating WAN/MAN connectivity for building-to-building and campus-to-campus locations
- Service providers extending fiber networks to create new connections for "last-mile" or remote access requirements
- Internet Service Providers expanding the network backbone to establish new points of presence (POP)

About the Tsunami Product Family

The Tsunami family of Ethernet bridges provides wireless solutions that meet the growing demand for transparent and reliable high-speed network interconnectivity.

In addition to Tsunami 1000BaseSX, the world's first license-exempt Gigabit Ethernet bridge, the Tsunami product line includes:

Tsunami 10BaseT, a cost-effective, high-capacity alternative to multiple wireline T1 connections.

Tsunami 100BaseT/F, offering wireless Fast Ethernet connectivity for data communications at full-duplex 100BaseT/F speeds.

PRODUCT HIGHLIGHTS

Highest Capacity Available

- Removes network bandwidth bottlenecks
- Native IP is preserved throughout the system with direct connections to Gigabit switches

Easily Installed and Operational the Next Day

- License-exempt, eliminating delays from regulatory approvals
- Faster to deploy than new fiber
- Eliminates schedule delays due to new fiber right-of-way issues

Accelerates and Maximizes Return on Investment

- Faster payback compared to trenching new fiber or multi-year lease contracts
- Gigabit Ethernet connectivity at half the cost of an OC-3 connection

Carrier-Class Reliability

- Meets or exceeds traditional Telco wireline standards
- Eliminates line cuts inherent with wireline networks
- Longer distances and highest reliability due to superior system gain

KEY FEATURES

- License-exempt in many countries
- 430 Mbps full-duplex data capacity
- Four wayside T1 channels included
- Frequency ranges: 5250-5350 MHz and 5725-5825 MHz (U-NII Band)
- Compliant with key industry standards
- Network management through SNMP or HTTP
- Works with VPN (IEEE 802.1Q) for virtual LAN compatibility
- Built-in loopback, far-end monitoring, and private telephone network orderwire
- 2-year warranty



Tsunami[™] 1000BaseSX



Product Specifications

PRODUCT	MODEL NUMBER	FREQUENCY BAND	DATA CAPACITY (FULL DUPLEX)	VOICE CAPACITY	CHANNEL PLANS	THRESHOLD (BER=1X10°)	OUTPUT POWER (MINIMUM)	SYSTEM GAIN	DISTANCE (MILES/KM)
Tsunami 480	27900-G1	5250-5350 MHz and 5725-5825 MHz	430 Mbps	4 x T1	1 (A)	-73 dBm	+10 dBm +15 dBm	83 dB	< 7/11

System

5250-5350 MHz and Frequency Band (Dual) 5725-5825 MHz Aggregate Capacity 872 Mbps 430 Mbps Full Duplex **Data Capacity** Voice Capacity 4 x T1 Antenna Connector Two (2) N-Type female Output Power (5.8 GHz) +15 dBm +10 dBm (5.3 GHz) 16 dB, minimum **RF** Attenuation Range **Receiver Threshold** -73 dBm, BER=1x10⁻⁶, min. System Gain 83 dB Maximum Receive Level -20 dBm, error-free <500 µs Latency **Regulatory Compliance** US: FCC Part 15.407, Class A Canada: IC RSS-210

Data Interface

Gigabit Ethernet Interface 1000BaseF(SX) Connector SC Compliance IEEE 802.3d, 802.3z, 802.1q

Telco Interface

Interface

Connector

DSX-1 RJ-48C female ANSI T1-102-1987 Compliance

Auxiliary Connections

Orderwire Handset 2-wire, RJ-11 VF Orderwire Bridge 600 ohm, balanced, 4-wire, 0 dBm, DB9 RS-232, DB9 **Configuration Port** Software download 10/100BaseT/F **Network Management** (NMS) (HTTP, SNMP) RS-232/RS-422 Aux. Data Port (Clear Service Channel) 19.2k baud, DB9 Alarm Port 2 ea. Form C, 6 ea. TTL, DB9 **Test Points** Output power, near- and far-end RSL 4 x T1 (DSX-1) Wayside Channels

Power/Environment

DC Power **Optional AC Adapter**

Power Connector

Operational Temperature Indoor Unit

Outdoor Unit Humidity

Altitude

Physical

Indoor Unit

Size (WxHxD)

Weight **Outdoor Unit** Size (WxHxD)

Weight

Mounting (Installation)

EIA Rack Mount

19-inch/48.2 cm,

±37 to ±63 Volts, <250 Watts

100-250 Volts, 50-60 Hz

 0° to +50° C

-30° to +65° C

6-pin barrier strip, plug-in

0 to 95% non-condensing

17.2 x 3.5 x 14.5 inches (2RU)

43.7 x 8.9 x 36.8 cm

9 x 13 x 5 inches

22.9 x 33 x 12.7 cm

11 lbs/5 kg

20 lbs/9 kg

15,000 feet/4572 meters, maximum

2-rack unit height (mounting brackets supplied}



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