



License-Free Wireless Fast Ethernet Bridges (100BaseT)

Tsunami is a family of wireless bridges that provide enterprise WAN, fiber extension, backbone, spur and 'last-mile' connectivity. These bridges provide a high-performance, cost-effective and fast implementation alternative to fiber or leased lines.

Tsunami radios provide 'carrier-class' design that is more reliable than fiber or wire. With higher throughput than traditional wired circuits, Tsunami reduces network infrastructure costs. Tsunami can be implemented within days compared to weeks or months and eliminates monthly leasing costs normally associated with wire and fiber.

As with other models in the Tsunami family provides true full duplex connections at wire-speed (100BaseT, 100Mbps Fast Ethernet) along with two full time T1 (1.544 Mbps) ports to handle traditional telephony equipment. Operating under license-exempt regulations in North America and many other countries, this self-learning bridge does not require frequency coordination or licensing resulting in 'instant' connectivity solutions for line-of-site distances from less than 1 to more than 5 miles.

SNMP and HTML network management is integral along with sophisticated security features to offer network protection. Additional built-in services such as voice orderwire and auxiliary data connections are standard.

Applications

*The Tsunami wireless bridges are ideal for backbone connections for **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 and connections to their ISP.*

- 100 Mbps full-duplex throughput (>206 Mbps total)
- Two wayside T1 circuits
- Short term installation for instant communications
- Point-to-point communications from less than 1 mile to more than 5 miles
- AC or DC Power
- Wide operational temperature
- 2 Year Warranty



100 BaseT

100BaseT

5.8 GHz



Tsunami

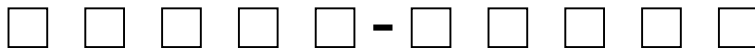
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Specifications and Ordering Information

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| <p>System</p> <p>Frequency Band (Dual Ch) 5250-5350 MHz & 5725-5825 MHz</p> <p>Capacity 100 Mbps + 2xT1</p> <p>Antenna Connector N-type female</p> <p>Output Power (5.8 GHz) +17 dBm (-30 to +65°C)</p> <p> (5.3 GHz) +10 dBm (-30 to +24°C)</p> <p> +9 dBm (-30 to +65°C)</p> <p>RF Attenuation Range 20 dB, minimum</p> <p>Receiver Threshold -76 dBm, BER=1x10⁻⁶</p> <p>System Gain 86 dB</p> <p>Maximum Receive Level -5 dBm, error free</p> <p>Regulatory Compliance FCC Part 15.407, Class B IC RSS210</p> <p>Data Interface</p> <p>Fast Ethernet Interface 100BaseTX/FX</p> <p>Connector RJ45/ST</p> <p>Compliance IEEE 802.3u</p> | <p>Auxiliary Connections</p> <p>Orderwire Handset 2-wire, RJ-11</p> <p>VF Orderwire Bridge 600 Ω balanced, 4 wire, 0 dBm, DB25 female</p> <p>Diagnostics Port RS-232 (craft), DB9</p> <p>NMS 10BaseT (HTTP, SNMP)</p> <p>Aux Data Port RS-232/RS-422, (Clear Service Channel) ≤ 9600 baud, DB9</p> <p>Alarm Port 2 Form C, 6 TTL, DB25</p> <p>Test Points Output power, near & far-end RSL</p> <p>Wayside 2 x T1 (DSX-1)</p> <p>Power/Environment</p> <p>DC Power ±20 to ±63 Volts, <50 Watts</p> <p>Optional AC Adapter 100-250 Volts, 50-60 Hz</p> <p>Power Connector 6-pin barrier strip, plug in</p> <p>Operational Temperature -30 to +65°C</p> <p>Humidity 0 to 95% non-condensing</p> <p>Altitude 15,000 feet, maximum</p> <p>Physical</p> <p>Size (WxHxD)* 17.2 x 3.5 x 14.5 inches (2RU)</p> <p>Weight 11 pounds</p> |
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* 19-inch EIA rack mount, 2-unit height (mounting brackets supplied).

Ordering Information



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| <p>System</p> <p>27720-51xxx 5.3/5.8 GHz Dual Band</p> <p>AC/DC Adapter</p> <p>27720-51xx0 Without AC adapter</p> <p>27700-51xx1 With AC adapter</p> | <p>Channel Options</p> <p>27720-51A1x A1 channel Tx=5775 MHz, Rx=5300 MHz</p> <p>27720-51A2x A2 channel Tx=5300 MHz, Rx=5775 MHz</p> <hr style="border-top: 1px dotted black;"/> |
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Preliminary

Specifications subject to change without notice.

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