



Tsunami™ GX800

End-to-End Broadband Wireless Product Portfolio

Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products. This portfolio includes:

- **Tsunami™ 8100** – Proxim's unlicensed PtP & PtMP Product line delivering wireless performance in excess of 4G products on the market today.
- **Lynx.GX®** – Cellular voice and data backhaul, up to DS3 interface
- **Tsunami.GX®** – Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- **QuickBridge™** – Complete "hop-in-a-box" Ethernet bridge for campus and small business network.

Proxim Wireless is a global pioneer of end-to-end broadband wireless systems that deliver quadruple play services. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

Tsunami™ GX800 is a high speed Point-to-Point (PtP) licensed microwave product capable of operating in 6 – 26 GHz licensed bands with more than 600Mbps throughout capacity, supporting an array of user configurable channel bandwidths from 7 - 56 MHz. The product has an extremely small foot print and comes in a split-mount design constituting of a compact indoor unit (IDU) and outdoor unit (ODU) that are a snap to install.

The Tsunami GX800 Series is an outcome of Proxim's extensive RF technical expertise and years of broadband wireless access products experience. The GX800 Licensed Point-to-Point products are technically advanced, highly reliable and very cost effective.

The Tsunami GX800 uses highly advanced radio technology. The product is designed for PDH, SDH and Wireless Broadband applications, utilizing modulation schemes from QPSK to 256QAM and high data rates. The product supports High Transmit Power Levels with up to +27dBm for certain frequency bands. The product is optimized for high speed Ethernet networking and for transmission of standard E1 or E3 channels.

Tsunami GX800 is not just another typical PDH/SDH platform. It houses a unique innovative proprietary packet system with different priority for each transmission channel. This advanced prioritization platform intelligently allocates transmission capacity depending on modulation scheme and channel bandwidth controlling adaptive selection of user interfaces and their speeds.

Advantages and key features

- 6 - 26GHz Frequency band support
- Wide band support from 7 - 56 MHz RF Channel Bandwidths
- Supports QPSK/16QAM/32QAM/64QAM/128QAM/256QAM Modulation schemes
- High Power radio
- Low noise figure, low phase noise and high linearity
- High MTBF, greater than 92,000 hours
- Compact and lightweight design
- Very high frequency stability +/- 5 ppm
- Wide operating temperature range for ODU: -40 to +65°C
- Compact solution, the smallest IDU on the market
- Up to 16xE1 or 1xE3, one Gigabit Ethernet and one Fast Ethernet traffic interfaces with true traffic capacity from 5Mbps up to 622Mbps.
- Capacity is dynamically allocated between E1/E3 channels and Ethernet
- Fully supported by Proxim Vision ES Network Management Solution
- Designed to meet FCC, ETSI and CE safety and emission standards
- Supports popular ITU-R standards and frequency recommendations

PRODUCT SERIES	Tsunami™ GX800 Product Family																																
GX800-6U/L	Tsunami GX800, 6U/6LGHZ Microwave Link Series																																
GX800-07	Tsunami GX800, 7 GHz Microwave Link Series																																
GX800-08	Tsunami GX800, 8 GHz Microwave Link Series																																
GX800-10/11	Tsunami GX800, 10/11 GHz Microwave Link Series																																
GX800-13	Tsunami GX800, 13 GHz Microwave Link Series																																
GX800-15	Tsunami GX800, 15 GHz Microwave Link Series																																
GX800-18	Tsunami GX800, 18 GHz Microwave Link Series																																
GX800-23	Tsunami GX800, 23 GHz Microwave Link Series																																
GX800-26	Tsunami GX800, 26 GHz Microwave Link Series																																
RADIO & TRANSMISSION																																	
FREQUENCY BANDS	<table border="1"> <thead> <tr> <th>Frequency Band (GHz)</th> <th>Frequency Range (GHz)</th> <th>T/R Spacing (MHz)</th> </tr> </thead> <tbody> <tr> <td>6U/L</td> <td>5.925 - 7.110</td> <td>160, 170, 252.04, 300, 340, 350</td> </tr> <tr> <td>7</td> <td>7.125 - 7.725</td> <td>154, 160, 161, 168, 196, 245</td> </tr> <tr> <td>8</td> <td>7.9 - 8.5</td> <td>119, 126, 266, 311.32</td> </tr> <tr> <td>10/11</td> <td>10.7 - 11.7</td> <td>490, 500, 530</td> </tr> <tr> <td>13</td> <td>12.75 - 13.25</td> <td>266</td> </tr> <tr> <td>15</td> <td>14.4 - 15.4</td> <td>315, 420, 490, 644, 728</td> </tr> <tr> <td>18</td> <td>17.7 - 19.7</td> <td>1092.5, 1010, 1008</td> </tr> <tr> <td>23</td> <td>21.2 - 23.6</td> <td>1008, 1200, 1232</td> </tr> <tr> <td>26</td> <td>24.2 - 26.5</td> <td>1008</td> </tr> </tbody> </table>			Frequency Band (GHz)	Frequency Range (GHz)	T/R Spacing (MHz)	6U/L	5.925 - 7.110	160, 170, 252.04, 300, 340, 350	7	7.125 - 7.725	154, 160, 161, 168, 196, 245	8	7.9 - 8.5	119, 126, 266, 311.32	10/11	10.7 - 11.7	490, 500, 530	13	12.75 - 13.25	266	15	14.4 - 15.4	315, 420, 490, 644, 728	18	17.7 - 19.7	1092.5, 1010, 1008	23	21.2 - 23.6	1008, 1200, 1232	26	24.2 - 26.5	1008
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CHANNEL BANDWIDTH	Wideband support. Configurable from 7 - 56MHz <ul style="list-style-type: none"> • CEPT/ETSI: 7, 14, 28, 56MHz • ANSI/FCC: 10, 20, 30, 40, 50MHz 																																
MAX TX POWER	27 dBm																																
TX POWER CONTROL	1 dBm Steps and Supports ATPC																																
MAX RX SENSITIVITY	-90 dBm																																
MODULATION	QPSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM																																
ERROR CORRECTION	FEC, Predistortion, Equalization, Internal BER																																
FREQUENCY STABILITY	±5 ppm																																
BRIDGING & DATA INTERFACES																																	
TRAFFIC INTERFACES	Gigabit Ethernet 1000Mbps Base T (RJ45) + One 100Mbps Fast Ethernet HSI Module Interface Options: nxE1, nxT1, nxE3, nxT3 and Fiber Optic (FO)																																
THROUGHPUT CAPACITY	622Mbps (Full duplex)																																
LATENCY	100 μs – 400 μs																																
VLAN, QOS	IEEE 802.1Q, 802.1p QoS																																
MANAGEMENT																																	
CHANNEL	Inband and out-of-band																																
SNMP	SNMP v1/v2c, Manageable via Proxim Vision ES																																
TELNET	IP Based via dedicated NMS port																																
SERIAL	Craft/RS232 Port																																
HTTP	Web based GUI																																
Out-of-band interface	10 / 100 Base T Fast Ethernet Port (RJ-45)																																
PHYSICAL																																	
DIMENSIONS	IDU : 10.0 x 1.73 x 7.9 in (Std 19" Half rack mount & 1U height) ODU : 10.9 x 9.4 x 3.6 in																																
WEIGHT	IDU : 2.6 lbs ODU : ≤ 9.5 lbs																																
POWER																																	
POWER INPUT	-48 VDC (EN 300 132-2)																																
MAX POWER CONSUMPTION	60W Max. (IDU + ODU)																																
ENVIRONMENTAL																																	
OPERATING TEMPERATURE	IDU: ETS 300 019 Class 3.2 (-5 to +45°C) ODU: ETS 300 019-2-4 Class 4M5 (-45 to +65°C)																																
RELATIVE HUMIDITY	up to 95% (non-condensing)																																
REGULATORY	ETSI/FCC Compliant CE Mark Certification 50 Year Recyclable Compliant ROHS-Compliant ETSI EN 60950, EN 302 217, EN 301 489, EN 300 132, EN 300 019																																

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