



## 超高性能回程，速率高达1.8 Gbps

Tsunami<sup>®</sup> GX-824是一款高处理量、高可靠性、经济高效的户外免许可点对点 (PtP) 微波的解决方案，工作频率为24 GHz。Tsunami<sup>®</sup> GX-824的容量高达900 Mbps全双工 (集合1.8 Gbps)，无中断ACM和高达1024QAM的调制，为微波链路市场提供了新的尺寸，可完全替代60和80 GHz毫米波的链路。

### 产品特点

- 24 GHz未许可频段
- 3.5至112 MHz信道
- 传输容量高达900 Mbps[由于监管限制，美国和加拿大的传输容量为660 Mbps]; 2 + 0配置为1.8 Gbps[美国和加拿大为1.32 Gbps]
- 两个千兆以太网+一个SM/MM光纤接口
- 巨型数据包高达10,240字节
- 调制类型QPSK为1024 QAM
- 无中断的自适应编码和调制
- 前向纠错
- 自动发信功率控制
- 全户外设计，带有1、2、3或4英尺天线 (30、60、90或120厘米)
- ODU单元的全过压保护

### 应用

- 本地/大都市/广域网
- IPTV分配
- 多媒体应用
- 最后一英里

### 管理

- 专用的GX-824管理
- 可配置的软件
- 独立诊断通道
- SNMP协议
- WEB界面
- 命令行接口
- 系统配置1+0、1+1或2+0

### 以太网

- QoS支持 (VLAN p-bit/DSCP/端口优先级)
- 完美支持VLAN和QinQ (802.1Q, 802.1ad)
- 两条独立的以太网线 (通过无线链路)
- 无线链路坏时，以太网端口关闭

### 电涌保护PoE供电器- GX-824-POEINJ

- 全过压保护
- 兼容DIN导轨或机架安装
- 简洁型1U机架单元，适用于3个供电模块
- GX-824-POEINJ电涌保护PoE供电器和GX-824-PSU-ACDC 链路中不包含48 VDC电源 (需单独订购)

### 关于Proxim Wireless

Proxim Wireless是全球先进的Wi-Fi、点对点、点对多点户外无线系统的先驱和领头羊，该系统用于建立关重要任务和高度可用性通信。

Proxim公司拥有超过30年的无线电方面的经验，以其无与伦比的可靠性，卓越的性能和创新动力而闻名。

## 规格

PRODUCT MODELS		PART NUMBERS						
GX-824-SM-LNK-A30	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 1 ft – 30 cm antenna	952-00315						
GX-824-MM-LNK-A30	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 1 ft – 30 cm antenna	952-00316						
GX-824-SM-LNK-A60	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 2 ft – 60 cm antenna	952-00317						
GX-824-MM-LNK-A60	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 2 ft – 60 cm antenna	952-00318						
GX-824-SM-LNK-A90	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 3 ft – 90 cm antenna	952-00319						
GX-824-MM-LNK-A90	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 3 ft – 90 cm antenna	952-00320						
GX-824-SM-LNK-A120	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 4 ft – 120 cm antenna	952-00321						
GX-824-MM-LNK-A120	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 4 ft – 120 cm antenna	952-00322						
INTERFACES								
ETHERNET	Two Gigabit Ethernet 1000Base-T (RJ45) Auto MDIX ports with 10k jumbo frame support One Optic Fiber 1000Base-SX / 1000Base-LX / 1000Base-BX port							
MANAGEMENT	Diagnostic channel with Ethernet / RS-232 interface Antenna alignment voltage (BNC)							
ANTENNA (ODU)	Integrated with the ODU							
RADIO & TX SPECS								
MODULATION	QPSK, 8PSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 1024QAM with Hitless adaptive coding & modulation (ACM)							
FREQUENCY BANDS	Frequency Range 24.000 to 24.250GHz [24.050 to 24.250 in the USA and Canada]							
CHANNEL BANDWIDTH	Wideband support. Configurable from 3.5 to 112 MHz [3.5 to 80 MHz for the USA and Canada]							
TX POWER	From -27 to +5 dBm							
TX POWER CONTROL	Automatic Transmit Power Control (ATPC)							
	<b>Channel Size (MHz)</b>	<b>3.5 MHz</b>	<b>7 MHz</b>	<b>14 MHz</b>	<b>28 MHz</b>	<b>56 MHz</b>	<b>80 MHz</b>	<b>112 MHz</b>
RX SENSITIVITY	QPSK	-94	-91	-88	-85	-83	-81	-79
	8PSK	-91	-88	-85	-81	-79	-77	-75
	16QAM	-88	-85	-82	-78	-76	-75	-73
	32QAM	-84	-82	-79	-75	-73	-71	-69
	64QAM	-81	-79	-76	-72	-70	-68	-66
	128QAM	-78	-76	-73	-69	-67	-65	-63
	256QAM	-75	-73	-70	-66	-64	-62	-60
	1024QAM	-71	-70	-67	-64	-60	-58	-56
ERROR CORRECTION	Reed-Solomon FEC and Convolutional Interleaver							
FREQUENCY STABILITY	< 10 ppm							
ANTENNAS OPTION								
	1 foot – 30 centimeters, 35.5 dBi 2 foot – 60 centimeters, 41 dBi 3 foot – 90 centimeters, 44 dBi 4 foot – 120 centimeters, 46 dBi							
MANAGEMENT								
LOCAL	RS-232 interface							
REMOTE	Proprietary GX-824 Manager, telnet (CLI)							
SNMP	SNMP v1, Enterprise MIB							
OTHER	Spectrum analyzer							
SECURITY								
ENCRYPTION	AES 256 bits							
QoS								
	4 queues based on physical port, 802.1p tag or IP DiffServ							
NETWORK								
MODES	1+0, 1+1 SD/FD (protected) or 2+0 (true aggregate)							
CONFIGURATION SCHEME	900 Mbps full duplex (1800 Mbps true aggregate) [660 Mbps full duplex (1320 Mbps true aggregate) in the USA and Canada]							
THROUGHPUT CAPACITY								
LATENCY	< 90 μs @ 900 Mbps							
VLAN	802.1Q (4096 VLAN IDs) and QinQ							
POWER								
POWER INPUT	48 VDC (support from 36 to 72 VDC)							
MAX POWER CONSUMPTION	Up to 27 W							

ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	RELATIVE HUMIDITY	IP RATING	WIND LOADING
	-31 to +131 °F (-35 to +55°C)	100%	IP65	70 Mph (112 km/h) Operational, 125 Mph (200 km/h) Survival
PHYSICAL SPECS				
DIMENSIONS	5.2 x 10 x 11.8 in. (133 x 255 x 301 mm)			
WEIGHT	11.2 lbs (5.1 kg) without antenna			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> <li>• Two Tsunami® GX-824 ODU</li> <li>• Two antennas</li> <li>• Two Mounting Kits</li> <li>• One Quick Installation Guide</li> </ul>			
OPTIONS				PART NUMBER
GX-824-PSU-ACDC	110 – 220 VAC to -48 VDC Power Supply Unit for GX-824			949-00130
GX-824-POEINJ	Surge Protected PoE injector (-48 VDC input) for GX-824			949-00131
GX-824-CAP-SM	SM Fiber weatherproofing cap for GX-824			949-00136
GX-824-CAP-MM	MM Fiber weatherproofing cap for GX-824			949-00137
MTBF & WARRANTY				
	2 year parts and labor. ServPak Extended Support available			