





Ultra high performance backhaul delivering up to 1.8 Gbps

Tsunami® GX-824, is a very high throughput, extremely reliable and cost-effective, all outdoor unlicensed point-to-point (PtP) microwave solution operating in the 24 GHz band. With its capacity up to 900 Mbps full duplex (1.8 Gbps aggregate), hitless ACM and modulation schemes up to 1024QAM, Tsunami® GX-824 brings new dimension to microwave links market and can be used as adequate alternative to 60 and 80 GHz millimeter wave links.

Features

- 24 GHz Unlicensed Frequency bands
- 3.5 to 112 MHz channels
- Transmission capacity up to 900 Mbps [660 Mbps in the USA and Canada due to regulatory constraints]; 1.8 Gbps for 2+0 configuration [1.32 Gbps for the USA and Canada]
- Two Gigabit Ethernet + one SM/MM fiber interfaces
- Jumbo packets up to 10,240 Bytes
- Modulation type QPSK to 1024 QAM
- Hitless adaptive coding & modulation
- Forward error correction (FEC)
- Automatic TX power control (ATPC)
- All-Outdoor design with 1, 2, 3 or 4 foot antennas (30, 60, 90 or 120 cm)
- Full overvoltage protection of ODU unit

Applications

- Local / Metropolitan / Wide area networks
- IPTV distribution
- Multimedia applications
- Last miles

Management

- Proprietary GX-824 Manager
- Software configurable
- Independent diagnostic channel
- SNMP protocol
- WEB interface
- Command line interface
- System configuration 1+0, 1+1 or 2+0

Ethernet

- QoS support (VLAN p-bit / DSCP / port priority)
- Full support of VLAN and QinQ (802.1Q,802.1ad)
- Two independent Ethernet lines through radio link
- Ethernet port shutdown when the radio linkis bad

Surge Protected PoE Injector - GX-824-POEINJ

- Full overvoltage protection
- DIN rail or rack mount compatible
- Compact 1U rack unit for 3 injectors
- GX-824-POEINJ surge protected PoE injector and GX-824-PSU-ACDC
 48 VDC power supply are not included in with link (to be ordered separately)

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.

Specifications

PRODUCT MODELS						Р	ART NUMBERS		
GX-824-SM-LNK-A30 GX-824-MM-LNK-A30 GX-824-SM-LNK-A60 GX-824-MM-LNK-A60 GX-824-SM-LNK-A90 GX-824-MM-LNK-A90 GX-824-SM-LNK-A120 GX-824-MM-LNK-A120	Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 1 ft – 30 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 1 ft – 30 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 2 ft – 60 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 2 ft – 60 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 3 ft – 90 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 3 ft – 90 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + SM Fiber, 4 ft – 120 cm antenna Tsunami GX-824 Link, 920 Mbps FD, Gigabit Eth + MM Fiber, 4 ft – 120 cm antenna							952-00315 952-00316 952-00317 952-00318 952-00319 952-00320 952-00321 952-00322	
INTERFACES									
ETHERNET MANAGEMENT ANTENNA (ODU)	Two Gigabit Ethernet 1000Base-T (RJ45) Auto MDIX ports with 10k jumbo frame support One Optic Fiber 1000Base-SX / 1000Base-LX / 1000Base-BX port Diagnostic channel with Ethernet / RS-232 interface Antenna alignment voltage (BNC) Integrated with the ODU								
RADIO & TX SPECS									
MODULATION FREQUENCY BANDS CHANNEL BANDWIDTH TX POWER TX POWER CONTROL	QPSK, 8PSK, 16QAM, Frequency Range 24. Wideband support. Co From -27 to +5 dBm Automatic Transmit Po	000 to 24.250G onfigurable from	Hz [24.050 to 2 3.5 to 112 MHz	4.250 in the US	A and Canada]	,	modulation (ACN	1)	
	Channel Size (MHz)	3.5 MHz	7 MHz	14 MHz	28 MHz	56 MHz	80 MHz	112 MHz	
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	
	512QAM	-71	-70	-67	-64	-60	-58	-56	
	1024QAM	-68	-65	-63	-60	-57	-54	-52	
ERROR CORRECTION FREQUENCY STABILITY	Reed-Solomon FEC at < 10 ppm	nd Convolutiona	al Interleaver						
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 REMOTE SNMP OTHER	RS-232 interface Proprietary GX-824 Manager, telnet (CLI) SNMP v1, Enterprise MIB Spectrum analyzer								
SECURITY									
ENCRYPTION	AES 256 bits								
QoS									
	4 queues based on ph	nysical port, 802	2.1p tag or IP Diff	fServ					
NETWORK									
MODES CONFIGURATION SCHEME ITHROUGHPUT CAPACITY LATENCY VLAN	1+0, 1+1 SD/FD (protec 900 Mbps full duplex < 90 μs @ 900 Mbps 802.1Q (4096 VLAN IE	(1800 Mbps true	00 0 ,	60 Mbps full dup	lex (1320 Mbps t	rue aggregate) i	n the USA and C	anada]	
POWER	, , , , , , , , , , , , , , , , , , , ,	,							
POWER INPUT MAX POWER CONSUMPTION	48 VDC (support from Up to 27 W	36 to 72 VDC)							

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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 WEIGHT	5.2 x 10 x 11.8 in. (133 x 255 × 301 mm) 11.2 lbs (5.1 kg) without antenna							
PACKAGE CONTENTS								
	 Two Tsunami® GX-824 ODU Two antennas Two Mounting Kits One Quick Installation Guide 							
OPTIONS				PART NUMBER				
GX-824-PSU-ACDC GX-824-POEINJ GX-824-CAP-SM GX-824-CAP-MM	110 – 220 VAC to -48 VDC Power Surge Protected PoE injector (-4 SM Fiber weatherproofing cap fo MM Fiber weatherproofing cap fo	949-00130 949-00131 949-00136 949-00137						
MTBF & WARRANTY	1			·				
	2 year parts and labor. ServPak Extended Support available							

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