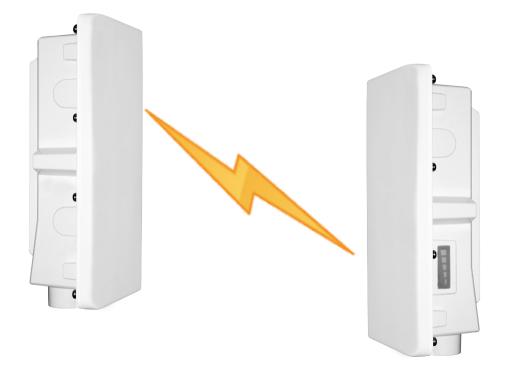


Tsunami Quickbridge® 825 series

Compact Point-to-Point Wireless Bridge Bundle



Presenting Proxim's newest compact Point-to-Point wireless backhaul solution.

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range broadband wireless solutions. Proxim introduces Tsunami Quickbridge[®] 825 series, an incredibly cost-effective, non Line-of-Sight Point-to-Point (PtP) wireless backhaul solution. With this complete "Hop-in-a-Box" solution delivering up to 100 Mbps throughput, deployments of all sizes will enjoy a quick return on investment.

With excellent spectrum efficiency and a highly evolved prioritization platform tailored to deliver voice, video and data applications, Tsunami Quickbridge® 825 series satisfies carriers, wireless service providers and Government organizations with requirements for reliable cost optimized high performance wireless backhaul.

Leveraging the advantages of OFDM and the latest MIMO radio innovations, Tsunami Quickbridge® 825 series draws on Proxim's proprietary Wireless Outdoor Router Protocol (WORP®) to deliver an unmatched outdoor wireless performance when compared to other products in the market today.

World Class Performance

- Features a very small form factor and an outdoor rated IP67 Metal enclosure
- Available with 15 dBi integrated antenna
- 50 Mbps (license upgradable to 100 Mbps) or directly 100 Mbps of throughput with maximum data rates of 300Mbps
- Provides flexible channel planning with support for 4.900 5.000 (L mask) and 5.150 to 5.925 GHz
- Comes with a 2x2 MIMO high power radio capable of 26 dBm transmit power
- Allows flexible bandwidth allocation for service tiers
- Spectrum analysis feature helps to study frequency bands for interference, and select a relatively low interference channel

All-in-One Link with Security Features

- Built-in feature rich network protocols for Bridging and Routing
- Advanced encryption protects over-the-air transmission via AES-128
- Radio mutual authentication eliminates unauthorized use of the system by rogue End Point and man-in-the middle attacks
- MAC, Ether type, IP address packet filtering provides granular network security
- Uses Proxim's Wireless Outdoor Routing Protocol (WORP®) to prevent snooping
- Features highly-secure remote management via SSL, SSH and SNMPv3

Cost Effective and Ease of Installation for Quick Return on Investment

- Low-cost bundle including both radio and mounting kit provides the industry's most aggressive price point, enabling any deployment to enjoy a quick return on investment
- License-free frequency bands worldwide provide reliable wireless broadband without the high cost of licensed frequencies
- Comes as a complete "Hop-In-A-Box" compact outdoor form factor offering unprecedented ease of installation
- Symplified web interface to optimized link deployement. Advanced detailed interface is still accessible if needed
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas
- Synchronization ready to optimize channel usage of collocated link

PRODUCT MODELS								
QB-825-LNK-50*	Tsunami® QB 825 Link , 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-50')							
QB-825-LNK-100	Tsunami® QB 825 Link , 100 Mbps, MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-100)							
INTERFACES								
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000 Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol) or WORP sync							
RADIO & TX SPECS								
MIMO MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER OTHER	2x2 MIMO OFDM with BPSK, OPSK, QAM16, QAM64 4.900 - 5.925 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz', 5 MHz' channel bandwidths * Not applicable for DFS Band MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection Up to 26 dBm (dual chain) 0 – 15 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit Dynamic Channel Selection (DCS) based on interference detection. Dynamic Frequency Selection (DFS) based on radar signature. Automatic Transmit Power Control (ATPC) with EIRP limit support							
RX SENSITIVITY (BER=10 ⁻⁶)	Channel Size	40 MHZ	20 MHZ	10 MHz	5 MHz			
	MCS 0	-88 dBm	-92 dBm	-93 dBm	-94 dBm			
	MCS 7	-72 dBm	-74 dBm	-75 dBm	-77 dBm			
	MCS 8	-88 dBm	-91 dBm	-93 dBm	-94 dBm			
	MCS 15	-69 dBm	-71 dBm	-72 dBm	-75 dBm			
SYNCHRONIZATION								
SYNCHRONIZATION								
	Synchronize internal clock to Pulse	Per Second signa	al received from ei	ther GPS modul	le connected to	RJ11 serial port or Ethern	net Synchronization module connected to RJ45 ether	net port
ANTENNA								
	QB-825-EPR-50* and QB-825-EPR-	100 Integrated	l 15 dBi dual Polari	zed (H+V) pane	l antenna (12 dB	i before 5.000 GHz and	14 dBi beyond 5.850 GHz)	
MANAGEMENT		-						
LOCAL	RS-232 serial (RJ11 to DB-9 dongle provided)							
REMOTE SNMP	Teinet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB							
OTHER	Sivier viezevo, neorizio,							
SECURITY								
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication							
NETWORK								
MODES GATEWAY FEATURES IP STACK THROUGHPUT QoS	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) DHCP Server & relay, NAT with Std ALGs IPv4 and IPv6 simultaneously QB-825-EPR-50°: Up to 50 Mbps (license upgradable to 100 Mbps), QB-825-EPR-100: Up to 100 Mbps Asymmetric Bandwidth Control Uplink and Downlink CIR Control "committed information rate" per service flow Uplink and Downlink MIR Control Uplink and Downlink MIR Control "maximum information rate" per service flow 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP							oddiace IP
	Packet Classification Capabilities protocol, and Ethertype							
	Scheduling Best Effort, Real Time Polling Services							
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging							
POWER SUPPLY								
	Via provided PoE injector or direct	v from 12 VDC co	irce through serie	I port				
	Via provided PoE injector or directly from 12 VDC source through serial port							
POWER CONSUMPTION								
	6 Watt typical (15 Watt max)							
ENVIRONMENTAL SPECS								
	OPERATING TEMPERATURE	STO	DRAGE TEMPERAT	TURE	HU	MIDITY, WATER & DUST	PROOF, WIND LOADING	
	-40° to 55°C (-40° to 131° Fahrenhe		° to 70°C (-67° to				(non-condensing), IP67, 180 km/h (112 mph)	
		-33			9 iVId.		the condensing, if or, loo kinn (inz inph)	
PHYSICAL SPECS								
	DIMENSIONS (PACKAGED)	DIN	IENSIONS (UNPAC	CKAGED)	WE	EIGHT (PACKAGED)	WEIGHT (UNPACKAGED)	
	11.81 x 10.83 x 5.31 in (300 x 275 x 1	35 mm) 4.9	6 x 8.62 x 2.58 in	(126 x 219 x 65.	.5 mm) 7.2	7 lbs (3.3 Kg)	2.1 lbs (0.950 kg)	
SAFETY STANDARDS								
		0 60050 1/22 IS	C 60950 1/22 51	60950 1/22				
	UL 60950-1/22, CAN/CSA-C22.2 No. 60950-1/22, IEC 60950-1/22, EN 60950-1/22							
PACKAGE CONTENTS								
PACKAGE CONTENTS	 One Tsunami® QB-825-LNK-50 Two 32 W power injector with a Two Connector weatherproofin Two Quick Installation Guide 	country specific p	ower cord				Pole mounting kit (RJ-11 to DB9) dongle nding kit	
PACKAGE CONTENTS MTBF & WARRANTY	Two 32 W power injector with aTwo Connector weatherproofin	country specific p	ower cord			 Two Serial 	(RJ-11 to DB9) dongle	