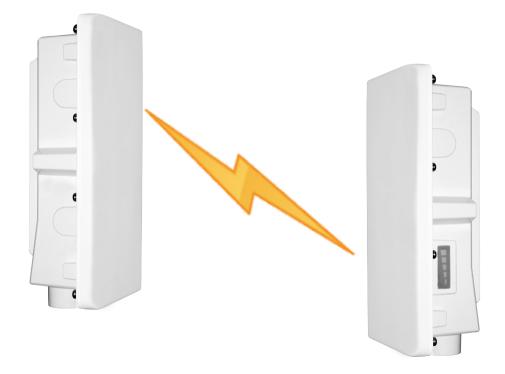


Tsunami Quickbridge® 825 series

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 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
- 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 (u	pgradable to 100 M	bps), MIMO 2x2	, 15 dBi antenna	a (Two QB-825-E	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	2x2 MIMO									
MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER CONTROL OTHER	222 MIMO OFDM with BPSK, QPSK, QAM16, QAM64 5.150 – 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										
	Superioriza internal de ditta D	Por Socond -in	ocolucid from	thor CDC med 1	lo conset-1	P 111 corial act		tod to PIAE othernet as t		
	Synchronize Internal Clock to Pulse	i el secono signal ro	eceiveu irom el	uiei GPS MOQUI	re connected to	is in senial port of Et	thernet Synchronization module connec	леа то кочо егнетнег роп		
ANTENNA										
	QB-825-EPR-50° and QB-825-EPR-100 Integrated 15 dBi dual Polarized (H+V) panel antenna (14 dBi beyond 5.850 GHz)									
MANAGEMENT										
LOCAL	RS-232 serial (RJ11 to DB-9 dongle provided)									
REMOTE SNMP OTHER	R3-232 Senai (Call to Das dongle provided) Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-35112, RFC-3414, Private MIB Syslog, sFlow [∞] agent, SNTP and local time, Spectrum analyzer									
SECURITY										
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication									
NETWORK										
MODES GATEWAY FEATURES IP STACK THROUGHPUT	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									
QoS	Asymmetric Bandwidth Control Duplink and Downlink CIR Control "committed information rate" per service flow Uplink and Downlink MIR Control "maximum information rate" per service flow									
	Packet Classification Capabilities 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype									
	Scheduling Best Effort, Real Time Polling Services									
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging									
	Sozira, management v Para, Halisp	aren, Access, nulli	, and mixed mot	ac. and double						
POWER SUPPLY										
	Via provided PoE injector or directly	y from 12 VDC sourc	e through serial	port						
POWER CONSUMPTION										
	6 Watt typical (15 Watt max)									
ENVIRONMENTAL SPECS										
	OPERATING TEMPERATURE	STOP	AGE TEMPERAT	URE	ЦІ	MIDITY WATER & D	OUST PROOF, WIND LOADING			
								112 mah)		
	-40° to 55°C (-40° to 131° Fahrenhe	-55° ti	o 70°C (-67° to 1	100" ranrenneit	y Ma	x 100∞ relative hum	idity (non-condensing), IP67, 180 km/h (nz mpnj		
PHYSICAL SPECS										
	DIMENSIONS (PACKAGED)	DIMEN	NSIONS (UNPAC	CKAGED)	WE	IGHT (PACKAGED)	WEIGHT (UNPACKAGED)			
	11.81 x 10.83 x 5.31 in (300 x 275 x 13	35 mm) 4.96 ×	(8.62 x 2.58 in ((126 x 219 x 65.5	5 mm) 7.2	7 lbs (3.3 Kg)	2.1 lbs (0.950 kg)			
SAFETY STANDARDS										
	UL 60950-1/22, CAN/CSA-C22.2 N	0 60950-1/22 150 6	50950-1/22 EN	60950-1/22						
	01 00330-1/22, CAN/COA-C22.2 N	0. 00000-1/22, IEC 6	55550-1/22, EN	55550-1/22						
PACKAGE CONTENTS										
	 One Tsunami® QB-825-LNK-50' / 100 with integrated antennas (Two Tsunami® QB-825-EPR-50' / 100) Two 32 W power injector with reload button and country specific power cord Two Connector weatherproofing kit (Includes all recommended weatherproofing material) Two Quick Installation Guide 									
MTBF & WARRANTY										