

Tsunami QuickBridge® 8200 series

High Power Point-to-Point Wireless Bridge Bundle



Next generation of field-proven Tsunami QuickBridge[®] 8200 wireless backhaul solution that exceeds 4G speed requirements with 300 Mbps data rate!

Tsunami® QB-8200, is a high power, extremely reliable and a cost-effective, nonline-of-sight 4G point-to-point (PtP) wireless backhaul solution. It delivers data rates of 300 Mbps, along with excellent spectrum and 25.8 dBm high power radios for extend coverage.

With its incredible channel capacity & flexibility, excellent spectrum efficiency and a highly evolved prioritization platform tailored to deliver voice, video and data applications, Tsunami® QB-8200 satisfies carriers, wireless service providers and Government organizations with requirements for fast and reliable wireless backhaul.

Tsunami® QB-8200 leverages the advantages of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP®) to provide wireless performance in excess of 4G products on the markets today.

World Class Performance

- Point-to-Point system that delivers 300 Mbps data rate at distances of over 5 miles (8 km)
- Very low latency of 2 to 3 ms to support voice and video applications over long distances
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks
- Built-in feature rich network protocols for bridging, routing and gateway functionality

Non-Line-of-Sight and Advanced Features

- Non-line-of-sight capable, utilizing OFDM and enhanced 3x3 MIMO techniques to better penetrate through obstructions
- Features dual Gigabit Ethernet ports with PoE out to power other devices like surveillance cameras or additional radios
- Enables packet identification to create unique and sophisticated service rules and tiered service classes with ease
- Compatibility with LACP switches for link aggregation
- Spectrum analyzer to help study frequency bands for interference, and select a relatively low interference channel

Frequency Agnostic

- Operates in licensed and unlicensed frequency bands
- Flexible channel planning with 5, 10, 20 and 40MHz size
- Provides support for extended frequency bands from 4.900 to 5.925 GHz

Carrier-Grade Security

- Implements tiered security layers for the most secure outdoor wireless communications in the unlicensed frequency spectrum
- Utilizes Proxim's Wireless Outdoor Routing Protocol (WORP®), which prevents snooping, and features highly-secure remote management via SSL, SSH and SNMPv3
- Provides military-grade security with AES encryption technology, prevents unsecure client-to-client communications and leverages MAC, Ether type and IP address packet filtering for granular network security

Cost Effective and Ease of Use for Quick Return on Investment

- Suitable for the carriers, WISP and Government markets
- Certified for deployments in the Americas, Europe and Asia
- The most cost-effective, high performance point-to-point solution from Proxim, enabling any deployment to enjoy a quick return on investment

Product Line Compatibility

• Connects to existing Tsunami® QB-8100

DRODUCT MODELC											
PRODUCT MODELS											
QB-8200-LNK QB-8250-LNK	Tsunami® QB 8200 Link, Tsunami® QB 8250 Link,					PR)					
INTERFACES											
WIRED ETHERNET WIRELESS PROTOCOL	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out (802.3af pin out) & Data) WORP® (Wireless Outdoor Router Protocol)										
RADIO & TX SPECS											
MIMO MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER TX POWER CONTROL OTHER	3x3 MIMO with 2 data streams OFDM 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 25.8 dBm (Triple chain) 0 – 25 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 (Per=10%)	Channel Size	40 MHZ	201	MHZ 10	0 MHz 5	MHz					
	MCS 0 MCS 7 MCS 8 MCS 15	-87 dBm -71 dBm -87 dBm -68 dBm	-74 -91	dBm -5	76 dBm -79 93 dBm -9	8 dBm 9 dBm 96 dBm 7 dBm	-				
LATENCY											
	< 3 msec										
ANTENNA											
	QB-8200-EPA Three N-type Connectors with built-in Surge Protection QB-8250-EPR Integrated 2x2 MIMO 23dBi Dual Polarized Antenna										
MANAGEMENT											
LOCAL	RS-232 serial (RJ11 to DB-	9 dongle provided)									
REMOTE	Telnet and SSH, Web GUI	and SSL, TFTP, SNM									
SNMP OTHER	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow [™] agent, SNTP and local time, Spectrum analyzer										
SECURITY	eyeleg, er letter agent, ert	in and local anic, ope	i analyze								
	AEC COM (20 hits										
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Co	ntrol List, Radius base	ed Authenticat	on							
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 Up to 246 Mbps										
QoS	Asymmetric Bandwidth	UL and DL CIR Control "committed information rate" per service flow UL and DL 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										
POWER CONSUMPTION	ooz.ra. management vz	in nanoparent, rece	iss, manicana	inixed model (anna aoabie tagg						
- CAER CONSUMPTION	12 Watt typical (22 Watt	avl									
	12 Watt typical (22 Watt m	unj									
ENVIRONMENTAL SPECS											
	OPERATING TEMPERATURE		STORAGE TEMPERATURE					PRATING, WIND LOADING			
	-40° to 60°C (-40° to 140° operating if temperature t -50° and 70°C (-58° and 1					100% relative	elative humidity - IP67, 200 km/h (125 mph)				
PHYSICAL SPECS	•	•									
	DIMENSIONS (PACKAGED))	DIMENSION	NS (UNPACKA	GED)	WEIGHT (P	ACKAGEDI		WEIGHT (UNPACKAG	GED)	
	 QB-8200-EPA: 14.56 x (370 x 348 x 208 mm) QB-8250-EPR: 15.94 x (405 x 405 x 234 mm) 	13.69 x 8.18 in.	 QB-8200 (274 x 28 QB-8250 	0-EPA: 10.79 x 1 33 x 86 mm) 0-EPR: 14.17 x 1 70 x 94 mm)	11.14 x 3.38 in.	• QB-820	00-EPA: 15 lbs 50-EPR: 16.31 ll		 QB-8200-EPA: 7.7 QB-8250-EPR: 9.0 	lbs (3.5 kg)	
SAFETY STANDARDS											
	UL 60950, CAN/CSA-C22	2.2 No. 60950. IEC 60	950, EN 609	50 (part -1 and	-22)						
PACKAGE CONTENTS											
	 One Tsunami[®] QB-8200-LNK based on two QB-8200-EPA with three N-type surge prote connectors or One Tsunami[®] QB-8250-LNK base two QB-8250-EPR with an integrated 23dBi dua polarized panel antenna 		rotected	ed on • Two Connector weatherproofing					ng kit PoE Surge Arrestor ıstallation Guide		
	two QB-8250-EPR with	an integrated 23dBi	dual	recommend	led weatherproofi	ing material)	dii		dallation Guide		