

## Bandwidth licensed to support 50 and 100 Mbps throughput options.

The compact and robust form factor of Tsunami Quickbridge<sup>®</sup> 825 is an ideal solution for urban wireless backhaul. It is eminently suitable discrete mounting in city streets and offers high reliability for the connection of Video Surveillance, traffic monitoring and traffic light management systems.

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

## 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 to 5.000 GHz (L mask) and 5.150 - 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<sup>®</sup>) 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
- Simplified web interface to optimized link deployment. 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

### About Proxim Wireless

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications.

Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.



## Specifications

PRODUCT MODELS		PART NUMBERS					
QB-825-LNK-50*	Tsunami® QB 825 Link , 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-50*)	902-00638 QB-825-LNK-50*-US 902-00637 QB-825-LNK-50*-WD					
QB-825-LNK-100	Tsunami® QB 825 Link , 100 Mbps, MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-100)	902-00591 QB-825-LNK-100-US 902-00590 QB-825-LNK-100-WD					
INTERFACES							
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps 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 CONTROL	2x2 MIMO OFDM with BPSK, QPSK, QAM16, QAM64 4.900 - 5.925 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz*, 5 MHz* channel bandwidths * DFS availability is country dependent, check the User Guide MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps) Up to 26 dBm (dual chain) 0 – 15 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit						
	<b>Channel Size</b>	<b>40 MHz</b>	<b>20 MHz</b>	<b>10 MHz</b>	<b>5 MHz</b>		
RX SENSITIVITY (PER=10 <sup>-6</sup> )	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		
OTHER	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						
ANTENNA							
QB-825-EPR-50* and QB-825-EPR-100	Integrated 15 dBi dual Polarized (H+V) panel antenna (12 dBi before 5.000 GHz and 14 dBi beyond 5.850 GHz)						
MANAGEMENT							
LOCAL REMOTE SNMP OTHER	RS-232 serial (RJ11 to DB-9 dongle provided) Telnet 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 Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer						
SYNCHRONIZATION							
	Synchronize internal clock to Pulse Per Second signal recieved from either GPS module connected to RJ11 serial port or Ethernet Synchronization module connected to RJ45 ethernet port						
SECURITY							
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication						
QoS							
Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling	Uplink and Downlink CIR Control "committed information rate" per service flow 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 protocol, and Ethertype Best Effort, Real Time Polling Services						
NETWORK							
MODES IP STACK THROUGHPUT GATEWAY FEATURES VLAN	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously <table border="1" data-bbox="378 1703 1528 1753"> <tr> <td>QB-825-EPR-50*</td> <td>Up to 50 Mbps (license upgradable to 100 Mbps)</td> </tr> </table> DHCP Server & relay, NAT with Std ALGs 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging					QB-825-EPR-50*	Up to 50 Mbps (license upgradable to 100 Mbps)
QB-825-EPR-50*	Up to 50 Mbps (license upgradable to 100 Mbps)						

POWER SUPPLY				
	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	STORAGE TEMPERATURE	HUMIDITY - Water & Dust Proof	WIND LOADING
	-40° to 55°C (-40° to 131° Fahrenheit)	-55° to 70°C (-67° to 158° Fahrenheit)	Max 100% relative humidity (non-condensing) - IP67	180 km/h (112 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
	11.81 x 10.83 x 5.31 in (300 x 275 x 135 mm)	4.96 x 8.62 x 2.58 in (126 x 219 x 65.5 mm)	7.27 lbs (3.3 Kg)	2.1 lbs (0.950 kg)
SAFETY STANDARDS				
	UL 60950-1/22, CAN/CSA-C22.2 No. 60950-1/22, IEC 60950-1/22, EN 60950-1/22			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> <li>• One Tsunami® QB-825-LNK-50* / 100 with integrated antennas (Two Tsunami® QB-825-EPR-50* / 100)</li> <li>• Two 32 W power injector with country specific power cord</li> <li>• Two Wall / Pole mounting kit</li> <li>• Two Connector weatherproofing kit (Includes all recommended weatherproofing material)</li> <li>• Two Serial (RJ-11 to DB9) dongle</li> <li>• Two Grounding kit</li> <li>• Two Quick Installation Guide</li> </ul>			
MTBF & WARRANTY				
	MTBF over 350,000 hours & 2-year warranty with ServPak Extended Support available			