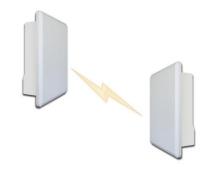


# Tsunami<sup>®</sup> QuickBridge 8100 Series High Speed Point-to-Point Wireless Bridge Bundle



Tsunami® QuickBridge 8100 Series

### Wireless Product Portfolio

- Tsunami® 8000 Series PtP & PtMP product line delivering 300 Mbps plus data rate
- Tsunami<sup>®</sup> .11 Series Our best selling Point-to-point and multipoint product line
- Tsunami® GX800- Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- Tsunami® QB 62000- High capacity, small footprint PtP backhaul solution with 1Gbps throughput
- ORiNOCO® AP The industry's highest performance 802.11a/b/g/n access points

Proxim Wireless is a global pioneer of end-to-end broadband wireless systems that deliver the quadruple play. From Wi-Fi to wireless Gigabit Ethernet - our WLAN, Mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

# Presenting a Wireless Backhaul Solution that Exceeds 4G Speed Requirements with 300Mbps data rate!

With over 20 years in wireless innovation, Proxim introduces the Tsunami<sup>®</sup> QB-8100, an incredibly costeffective, high performance and non-line-of-sight 4G point-to-point (PtP) wireless backhaul solution. With 300 Mbps data rates in a complete "Hop-in-a-Box" solution, deployments in networks of all sizeswill enjoy a quick return on investment.

With incredible channel capacity & flexibility, excellent spectrum efficiency and a highly evolved prioritization platform tailored to deliver voice, video and data applications, the Tsunami® QB-8100 satisfies carriers, wireless service providers and Government organizations with requirements for fast and reliable 4G wireless backhaul.

Leveraging the advantages of OFDM and the latest MIMO radio innovations, the Tsunami® QB-8100 draws on Proxim's proprietaryWireless Outdoor Router Protocol (WORP®) to deliver wireless performance in excess of 4G products on the markets today.

#### World-class Performance

- Point-to-Point system that delivers a 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
- 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 MIMO techniques to penetrate through obstructions better
- Features dual Gigabit Ethernet ports with PoE out to power other devices like surveillance cameras and additional radios\*
- Enables packet identification to create unique and sophisticated service rules and tiered service classes with ease
- Spectrum analyzer feature helps to study frequency bands for interference, and select a relatively low interference channel.

# Widest Range of Frequencies

- Provides flexible channel planning with support for 4.9 6.0 GHz and 2.3 2.5 GHz frequencies
- Operates in licensed and unlicensed frequency spectrums and comes as a complete "Hop-In-A-Box" with a set of accessories for even greater ease of installation

### **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 advanced AES encryption for military-grade over-the-air communications and radio mutual authentication eliminates unauthorized use of the system by rogue subscriber units and man-in-the middle attacks

## Cost Effective and Ease of Use for Quick Return on Investment

- Complete "Hop-In-A-Box" compact outdoor form factor allows unprecedented ease of installation
- 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

Proxim recommends 60W PoE (not supplied in standard package) when the second Ethernet Port (Ethernet 2) is utilized for power applications

48 VDC (15 W average) is tolerable on the second Ethernet port (Ethernet 2). Ensure connected device can support the same Use PoE Splitter (not supplied in standard package) when the second Ethernet port is utilized for data applications

# Tsunami® QuickBridge 8100 Series

Technical Specifications

PRODUCT MODELS						
QB-8100-LNK	Tsunami QB 8100 Link, 300 Mbps, MIMO 3x3, Type-N Connectors (Two QB-8100-EPA)					
QB-8150-LNK	Tsunami QB 8150 Link, 300 Mbps, MIMO 2x2, 23 dBi integrated antenna (Two QB-8150-EPR)					
INTERFACES						
	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet					
	<ul> <li>Port #1 with PoE in &amp; Data (all models)</li> <li>Port #2 with PoE out (802.3af pin out) &amp; Data</li> </ul>					
WIRELSS PROTOCOL	WORP®(Wireless Outdoor Router Protocol)					
RADIO & TX SPECS						
MIMO	3x3 MIMO					
MODULATION	OFDM					
FREQUENCY	2.3 – 2.5 GHz					
	4.9 – 6.0 GHz (Subject to	Country Regulations)				
CHANNEL SIZE	40 MHz, 20 MHz, 10 MH	Iz*, 5 MHz* channel ba	ndwidths	* Not applic	able for DFS Band	
DATA RATE	MCS 0 to 15 for High Th		00 Mbps) with Dy	namic Data Rate S	election	
TX POWER	Up to 21dBm (two Tx ch	1				
TX POWER CONTROL	0 – 25 dB, in 0.5 dB step				-	
	Channel Size	40 MHz	20 MHz	10 MHz	5 MHz	
	MCS 0	-87 dBm	-93 dBm	-94 dBm	-96 dBm	
	MCS 7	-71 dBm	-75 dBm	-78 dBm	-81 dBm	
	MCS 8	-87 dBm	-93 dBm	-94 dBm	-95 dBm	
	MCS 15	-69 dBm	-71 dBm	-74 dBm	-77 dBm	
	< 3 msec					
ANTENNA		Model QB-8100-EPA includes three N-Type Antenna Connectors with built in Surge Protection Model QB-8150-EPR includes an Integrated 2x2 MIMO 23dBi Dual Polarized Antenna				
MANACEMENT	Model QB-8150-EPR inc	iuues an integrated 2x2	IVIIIVIO 23dBI Dua	Polarized Antenr	Id	
MANAGEMENT LOCAL	DC 222 corticl /D144 to D1					
	RS-232 serial (RJ11 to DB-9 dongle provided)					
REMOTE SNMP	Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3					
OTHER	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB					
SECURITY	Syslog, sFlow™ agent, SNTP and local time ,Spectrum analyzer					
ENCRYPTION	AES-CCM 128 bits					
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication					
NETWORK						
MODES	Bridging(support LACP through external switches), Routing (RIP v2 and IP tunneling)					
THROUGHPUT	Model QB-8100-EPA and QB-8150-EPR up to 200 Mbps					
GATEWAY FEATURES	DHCP Server & relay, NA		0 11005			
QoS	Asymmetric Uplink and Downlink CIR Control "committed information rate" per					
	Bandwidth Control	service flow Uplink a				
	rate" per service flow					
	Packet Classification 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination					
	Capabilities address, source/destination port, Ethernet source/destination address,					
	IP protocol, and Ethertype					
	Scheduling Best Effort, Real Time Polling Services					
	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging					
POWER CONSUMPTION	7 Watt typical (17 Watt	max)				
POWER CONSUMPTION ENVIRONMENTAL SPECS	7 Watt typical (17 Watt	max)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING	-40º to 60ºC (-40º to 140	0º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE	-40º to 60ºC (-40º to 14) -55º to 80ºC (-67º to 17)	0º Fahrenheit) 6º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY	-40º to 60ºC (-40º to 14) -55º to 80ºC (-67º to 17) Max 100% relative humi	0º Fahrenheit) 6º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING	-40º to 60ºC (-40º to 14 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67	0º Fahrenheit) 6º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING	-40º to 60ºC (-40º to 14) -55º to 80ºC (-67º to 17) Max 100% relative humi	0º Fahrenheit) 6º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS	-40º to 60ºC (-40º to 14 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67	0º Fahrenheit) 6º Fahrenheit)				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS	-40º to 60ºC (-40º to 14 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67 125 mph	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing)	70			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS	-40º to 60ºC (-40º to 144 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14	0º Fahrenheit) 6º Fahrenheit) idity (non-condensing) .56 x 13.69 x 8.18 in. (3				
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED	-40º to 60ºC (-40º to 144 -55º to 80ºC (-67º to 174 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15	D <sup>®</sup> Fahrenheit) 6º Fahrenheit) dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (40	05 x 405 x 234 mm			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8100-EPA: 10	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) 56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (40 5 x 10.5 x 3.38 in (267 x	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED	-40º to 60ºC (-40º to 144 -55º to 80ºC (-67º to 174 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) 56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (40 5 x 10.5 x 3.38 in (267 x	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT	-40º to 60ºC (-40º to 14) -55º to 80ºC (-67º to 17) Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14	0º Fahrenheit) 6º Fahrenheit) dity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17) Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 14 Model QB-8100-EPA: 15	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED	-40º to 60ºC (-40º to 14) -55º to 80ºC (-67º to 17) Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 14 Model QB-8150-EPR: 14	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (41 .5 x 10.5 x 3.38 in (267 ) .17 x 14.17 x 3.70 in (37 .15 (6.8 kg) .31 lbs (7.4 kg)	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8100-EPA: 10 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (40 .5 x 10.5 x 3.38 in (267 s .17 x 14.17 x 3.70 in (37 .15 (6.8 kg) .31 lbs (7.4 kg) 7 lbs (3.5 kg)	05 x 405 x 234 mm x 267 x 86 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED	-40° to 60°C (-40° to 14) -55° to 80°C (-67° to 17) Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8100-EPA: 10 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (41 .5 x 10.5 x 3.38 in (267 .17 x 14.17 x 3.70 in (37 .15 s (6.8 kg) .31 lbs (6.8 kg) .31 lbs (3.5 kg) D lbs (4.1 kg)	05 x 405 x 234 mm x 267 x 86 mm) 0 x 370 x 94 mm)			
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8100-EPA: 10 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22	0° Fahrenheit) 6° Fahrenheit) (dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (41 .5 x 10.5 x 3.38 in (267 .17 x 14.17 x 3.70 in (37 .15 s (6.8 kg) .31 lbs (7.4 kg) 7 lbs (3.5 kg) 0 lbs (4.1 kg) .2 No. 60950, IEC 60950	05 x 405 x 234 mm x 267 x 86 mm) 0 x 370 x 94 mm) 0 x 860950	n)		
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-40° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81	0º Fahrenheit) 6º Fahrenheit) idity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm) 0 x 370 x 94 mm) 0 x 8 00 x 94 mm) 0 x 8 0 x 94 mm)	n)	ge protected	
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POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED WEIGHT PACKAGED	-40º to 60ºC (-40º to 14 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81 connectors, or One T dual polarized panel Two power injector a	0° Fahrenheit) 6° Fahrenheit) (dity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm) 0 x 370 x 94 mm) 0, EN 60950 QB-8100-EPA with based on two QB-	n)	ge protected	
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	-40º to 60ºC (-40º to 14 -55º to 80ºC (-67º to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81 connectors, or One T dual polarized panel Two power injector a Two Wall / Pole mou	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm) (0 x 370 x 94 mm	three N-type surg 8150-EPR with ar	ge protected i integrated 23dBi	
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17) Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8100-EPA: 10 Model QB-8100-EPA: 10 Model QB-8100-EPA: 15 Model QB-8100-EPA: 15 M	0º Fahrenheit) 6º Fahrenheit) dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (4 .5 x 10.5 x 3.38 in (267 .17 x 14.17 x 3.70 in (37 .15 (6.8 kg) .31 lbs (7.4 kg) 7 lbs (4.1 kg) 2 No. 60950, IEC 60950 (00-LNK based on two 0 sunami® QB-8150-LNK l antenna and country specific pow nting kit herproofing kit (Include	05 x 405 x 234 mm x 267 x 86 mm) (0 x 370 x 94 mm	three N-type surg 8150-EPR with ar	ge protected i integrated 23dBi	
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81 connectors, or One T dual polarized panel Two power injector a Two Wall / Pole mou Two Connector weat Two Serial (RJ-11 to I	0º Fahrenheit) 6º Fahrenheit) dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (4 .5 x 10.5 x 3.38 in (267 .17 x 14.17 x 3.70 in (37 .15 (6.8 kg) .31 lbs (7.4 kg) 7 lbs (4.1 kg) 2 No. 60950, IEC 60950 (00-LNK based on two 0 sunami® QB-8150-LNK l antenna and country specific pow nting kit herproofing kit (Include	05 x 405 x 234 mm x 267 x 86 mm) (0 x 370 x 94 mm	) three N-type surg 8150-EPR with ar	ge protected i integrated 23dBi	
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81 connectors, or One T dual polarized panel Two power injector a Two Wall / Pole mou Two Connector weat Two Serial (RJ-11 to I Two Grounding kit	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) .56 x 13.69 x 8.18 in. (3 .94 x 15.94 x 9.21 in. (4) .5 x 10.5 x 3.38 in (267 s .17 x 14.17 x 3.70 in (37 .15 s (6.8 kg) .31 lbs (7.4 kg) 7 lbs (3.5 kg) 1 lbs (4.1 kg) .2 No. 60950, IEC 60950 (100-LNK based on two C sunami® QB-8150-LNK l antenna ind country specific pow nting kit herproofing kit (Include DB9) dongle	05 x 405 x 234 mm x 267 x 86 mm) (0 x 370 x 94 mm	) three N-type surg 8150-EPR with ar	ge protected i integrated 23dBi	
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-40° to 60°C (-40° to 14 -55° to 80°C (-67° to 17 Max 100% relative humi IP67 125 mph Model QB-8100-EPA: 14 Model QB-8150-EPR: 15 Model QB-8150-EPR: 14 Model QB-8150-EPR: 16 Model QB-8150-EPR: 16 Model QB-8150-EPR: 9.0 UL 60950, CAN/CSA-C22 One Tsunami® QB-81 connectors, or One T dual polarized panel Two power injector a Two Wall / Pole mou Two Connector weat Two Serial (RJ-11 to I	0º Fahrenheit) 6º Fahrenheit) (dity (non-condensing) 	05 x 405 x 234 mm x 267 x 86 mm) (0 x 370 x 94 mm	) three N-type surg 8150-EPR with ar	ge protected i integrated 23dBi	

# **APPLICATIONS**

- Backhaul to a Central POP Avoid expensive installation and recurring charge of a second wire line backhaul to a remote virtual POP
- Leased Line Redundancy Eliminate recurring DS-3 leased line charges with one time installation charge of a QuickBridge link
- Repeater

Extend distance or overcome path blockage by adding point-to-point hops

- High-bandwidth Last Mile Access Use QuickBridge to deliver TLS (Transparent LAN Services) to corporate parks
- Inter-POP Redundancy

Avoid downtimes caused by a wireline backhaul failure by adding a QuickBridge link as an inter-POP redundancy

For detailed technical specifications, please go to http://proxim.com/products/ptpwireless-backhaul/tsunamir-gb-8100-series/tsunamir-gb-8100

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