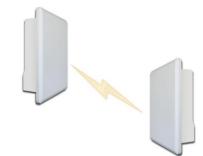


### Tsunami® QuickBridge 8100 Series High Speed Point-to-Point Wireless Bridge Bundle



### Tsunami® QuickBridge 8100 Series

# End-to-End Broadband Wireless Product Portfolio

Proxim Wireless offers extremely reliable, secure and easily-deployed solutions for interconnecting corporate and telecommunications networks. This portfolio includes:

- **Gigalink®** Carrier-class alternative to fiber, up to 1.25Gbps
- Lynx.GX<sup>®</sup> Cellular voice and data backhaul, up to DS3 interface
- Tsunami<sup>®</sup>.GX<sup>®</sup> Carrier-class IP Ethernet Bridge for voice and data backhaul for service providers and enterprise applications
- QuickBridge® Easiest-to-install "Hop-in a- box" complete kit Ethernet Bridge for campus and small business networks

**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 Bandwidth!

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 300Mbps 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

- A Point-to-Point system that delivers a 300 Mbps data rate link at distances of over 5 miles (8 km)
- Very low latency of the order 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

#### 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

### Tsunami® QuickBridge 8100 Series

**Technical Specifications** 

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)					
QB-8150-LNK-100	Tsunami QB 8150 Link, 2	Tsunami QB 8150 Link, 2x50 Mbps, MIMO 2x2, 23 dBi integrated antenna (Two QB-8150-EPR-100)				
NTERFACES						
	One or two auto MDI-X RJ45 10/100/1000Mbps Ethernet - Port #1 with PoE in & Data (all models) - Port #2 with PoE out (802.3af pin out) & Data (Not available for QB-8150-EPR-100)					
WIRELSS PROTOCOL	WORP™ (Wireless Outdoor Router Protocol)					
ADIO & TX SPECS						
IIMO	3x3 MIMO					
IODULATION	OFDM					
FREQUENCY	2.3 – 2.5 GHz					
	4.9 – 6.0 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz, 5 MHz channel bandwidths					
CHANNEL SIZE	· · · · · ·					
DATA RATE	MCS 0 to 15 for High Thre		00 Mbps) with Dy	namic Data Rate S	Selection	
TX POWER	Up to 21dBm (two Tx cha					
	0 – 25 dB, in 0.5 dB steps		-		5.444-	
	Channel Size	40 MHz	20 MHz	10 MHz	5 MHz	
	MCS 0	-87 dBm	-93 dBm	-94 dBm	-96 dBm	
	MCS 7 MCS 8	-71 dBm -87 dBm	-75 dBm -93 dBm	-78 dBm -94 dBm	-81 dBm -95 dBm	
	MCS 8 MCS 15	-69 dBm	-93 dBm -71 dBm	-94 dBm -74 dBm	-95 dBm -77 dBm	
TENCY	< 3 msec	-09 UDIII	-71 UDIII	-74 UDIII	-77 UDIII	
ATENCY INTENNA		Model QB-8100-EPA includes three N-Type Antenna Connectors with built in Surge Protection				
	Model QB-8100-EPA Incl Model QB-8150-EPR(-100					
MANAGEMENT	1010-0120-EFN(-100	and an integrate	24 2A2 IVIIIVIU 230		ancenna	
OCAL	RS-232 serial (RJ11 to DB	-9 dongle provided)				
FMOTF	Telnet and SSH, Web GU		13			
NMP				3412 REC-2/1/ 0	rivate MIR	
THER	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					
ECURITY						
NCRYPTION	AES-CCM 128 bits					
UTHENTICATION	Internal MAC Address Control List, Radius based Authentication					
ETWORK						
10DES	Bridging(support LACP th	rough external switche	es). Routing (RIP v	2 and IP tunneling	r)	
HROUGHPUT	Model QB-8100-EPA and QB-8150-EPR up to 200 Mbps Model QB-8150-EPR-100 up to 50 Mbps (TCP) each direction (100 Mbps aggregated)					
ATEWAY FEATURES	DHCP Server & relay, NA	T with Std ALGs				
QoS	Asymmetric Uplink and Downlink CIR Control "committed information rate" per Bandwidth Control service flow Uplink and Downlink MIR Control "maximum information rate" per service flow					
	Packet Classification Capabilities	802.10/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype				
	Scheduling	Scheduling Best Effort, Real Time Polling Services				
′LAN	802.1Q: Management VL			ed mode. QinQ do	uble tagging	
			,		00 0	
NVIRONMENTAL SPECS		-40º to 60ºC (-40º to 140º Fahrenheit)				
NVIRONMENTAL SPECS	-40º to 60ºC (-40º to 140	º Fahrenheit)				
INVIRONMENTAL SPECS	-40º to 60ºC (-40º to 140 -55º to 80ºC (-67º to 176					
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE		º Fahrenheit)				
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY	-55º to 80ºC (-67º to 176	º Fahrenheit)				
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE UMIDITY P RATING	-55º to 80ºC (-67º to 176 Max 100% relative humic	º Fahrenheit)				
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE UMIDITY P RATING VIND LOADING	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67	º Fahrenheit)				
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PRATING VIND LOADING INVSICAL SPECS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67	º Fahrenheit)				
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PRATING VIND LOADING INVSICAL SPECS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67	Pahrenheit) dity (non-condensing)	70 x 348 x 208 mr	n)		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE 4UMIDITY P RATING VIND LOADING PHYSICAL SPECS DIMENSIONS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph	Pahrenheit) lity (non-condensing) 56 x 13.69 x 8.18 in. (3)				
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE UMIDITY PRATING VIND LOADING HYSICAL SPECS IMENSIONS PACKAGED	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8100-EPA: 10.	<ul> <li>Pahrenheit)</li> <li>ity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE HUMIDITY PRATING VIND LOADING INVID LOADING INVISICAL SPECS DIMENSIONS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100	<ul> <li>Pahrenheit)</li> <li>ity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PATING VIND LOADING IMVSICAL SPECS IMENSIONS PACKAGED UNPACKAGED VEIGHT	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100	<ul> <li>Pahrenheit)</li> <li>ity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267 :</li> <li>0): 14.17 x 14.17 x 3.70</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PRATING VIND LOADING IMPSICAL SPECS IMENSIONS PACKAGED UNPACKAGED	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8100-EPA: 15	<ul> <li>Pahrenheit)</li> <li>Iity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267 i)</li> <li>14.17 x 14.17 x 3.70</li> <li>Ibs (6.8 kg)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PRATING VIND LOADING INVIDE LOADING IN	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8100-EPA: 10. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100	<ul> <li>Pahrenheit)</li> <li>Iity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267 :</li> <li>1): 14.17 x 14.17 x 3.70</li> <li>Ibs (6.8 kg)</li> <li>Ibs (7.4 kg)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY P RATING VIND LOADING IMPSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED VEIGHT	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8100-EPA: 15	<ul> <li><sup>e</sup> Fahrenheit)</li> <li>http://on-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>57 15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267- 0): 14.17 x 14.17 x 3.70</li> <li>1bs (6.8 kg)</li> <li>1bs (7.4 kg)</li> <li>1bs (3.5 kg)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm)	34 mm)		
NVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE UMIDITY RATING VIND LOADING HYSICAL SPECS IMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100	<ul> <li><sup>e</sup> Fahrenheit)</li> <li>iity (non-condensing)</li> <li>iity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267 :</li> <li>i): 14.17 x 14.17 x 3.70</li> <li>lbs (6.8 kg)</li> <li>i): 16.31 lbs (7.4 kg)</li> <li>lbs (3.5 kg)</li> <li>i): 9.0 lbs (4.1 kg)</li> </ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94	34 mm)		
INVIRONMENTAL SPECS EMPERATURE OPERATING STORAGE IUMIDITY PRATING VIND LOADING IMPSICAL SPECS IMMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED UNPACKAGED	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8100-EPA: 10. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>y (non-condensing)</li> <li>y (non-condensing)</li> <li>y (1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94	34 mm)		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY PRATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humio IP67 125 mph Model QB-8100-EPA: 14. Model QB-8100-EPA: 14. Model QB-8100-EPA: 10. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>y (non-condensing)</li> <li>y (non-condensing)</li> <li>y (1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94	34 mm) 4 mm)		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE UMIDITY P RATING WIND LOADING PHYSICAL SPECS OMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humio IP67 125 mph Model QB-8100-EPA: 14. Model QB-8100-EPA: 14. Model QB-8100-EPA: 10. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>(non-condensing)</li> <li>(1)</li> <li>(1)<td>in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94</td><td>34 mm) 4 mm)</td><td></td></li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94	34 mm) 4 mm)		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE UMIDITY P RATING WIND LOADING PHYSICAL SPECS OMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-1 based on two QE or One Tsunami® QB-1 based on two QE	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>Iity (non-condensing)</li> <li>Iity (non-c</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94 D, EN 60950 N-type surge prot an integrated 23d	34 mm) 4 mm) ected connectors	panel antenna	
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY P RATING MIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810 based on two QB or One Tsunami® QB-10	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>Iity (non-condensing)</li> <li>Iity (non-c</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94 D, EN 60950 N-type surge prot an integrated 23d	34 mm) 4 mm) ected connectors	Danel antenna	
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED WEIGHT PACKAGED	-55º to 80ºC (-67º to 176 Max 100% relative humio IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8100-EPA: 10. Model QB-8100-EPA: 15. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810 based on two QE or One Tsunami® QB-810 based on two QE Two power injector ar Two Wall / Pole mour	P Fahrenheit) lity (non-condensing) lity (non-condensing) 56 x 13.69 x 8.18 in. (3) 1): 15.94 x 15.94 x 9.21 5 x 10.5 x 3.38 in (267 1): 14.17 x 14.17 x 3.70 lbs (6.8 kg) 1): 16.31 lbs (7.4 kg) lbs (3.5 kg) 1): 9.0 lbs (4.1 kg) 2 No. 60950, IEC 60950 IO-LNK +8100-EPA with three 8150-LNK(-100) +8150-EPR(-100) with i d country specific pov ting kit	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94 D, EN 60950 N-type surge prot an integrated 23d ver cord	34 mm) 4 mm) ected connectors Bi dual polarized (		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY P RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humio IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-811 based on two QE or One Tsunami® QB-810 based on two QE or One Tsunami® CB-810 based on	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>Ity (non-condensing)</li> <li>Ity (non-condensing)</li> <li>S6 x 13.69 x 8.18 in. (3)</li> <li>S1.94 x 15.94 x 9.21</li> <li>S x 10.5 x 3.38 in (267 : 3): 14.17 x 14.17 x 3.70</li> <li>Ibs (6.8 kg)</li> <li>Ibs (1.1 kg)</li> <li>Ibs (3.5 kg)</li> <li>Ibs (1.1 kg)</li> <li>Ibs (2 No. 60950, IEC 60950)</li> <li>IC-LNK</li> <li>Ibo-EPR (-100) with the estimation of country specific povision of the second seco</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94 D, EN 60950 N-type surge prot an integrated 23d ver cord	34 mm) 4 mm) ected connectors Bi dual polarized (		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY P RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-811 based on two QE or One Tsunami® QB-811 based on two QE Two power injector ar Two Wall / Pole mour Two Connector weath Two Serial (RJ-11 to D	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>Ity (non-condensing)</li> <li>Ity (non-condensing)</li> <li>S6 x 13.69 x 8.18 in. (3)</li> <li>S1.94 x 15.94 x 9.21</li> <li>S x 10.5 x 3.38 in (267 : 3): 14.17 x 14.17 x 3.70</li> <li>Ibs (6.8 kg)</li> <li>Ibs (1.1 kg)</li> <li>Ibs (3.5 kg)</li> <li>Ibs (1.1 kg)</li> <li>Ibs (2 No. 60950, IEC 60950)</li> <li>IC-LNK</li> <li>Ibo-EPR (-100) with the estimation of country specific povision of the second seco</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 94 D, EN 60950 N-type surge prot an integrated 23d ver cord	34 mm) 4 mm) ected connectors Bi dual polarized (		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY IP RATING WIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810 based on two QB or One Tsunami® QB-910 based on two QB Two power injector ar Two Wall / Pole mour Two Connector weath Two Serial (RJ-11 to D Two Grounding kit	P Fahrenheit) lity (non-condensing) lity (non-condensing) 56 x 13.69 x 8.18 in. (3) 1): 15.94 x 15.94 x 9.21 5 x 10.5 x 3.38 in (267 : 1): 14.17 x 14.17 x 3.70 lits (6.8 kg) 1): 16.31 lits (7.4 kg) lits (3.5 kg) 1): 9.0 lits (4.1 kg) 2 No. 60950, IEC 60950 00-LNK 8-8100-EPA with three B150-LNK(-100) 1-8150-EPR(-100) with : 1d country specific pov titing kit ierproofing kit (Include B9) dongle	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 9/ 0, EN 60950 N-type surge prot an integrated 23d ver cord s all recommende	34 mm) 4 mm) ected connectors Bi dual polarized p ed weatherproofin		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE UMIDITY P RATING WIND LOADING PHYSICAL SPECS OMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	<ul> <li>-55º to 80ºC (-67º to 176</li> <li>Max 100% relative humic</li> <li>IP67</li> <li>125 mph</li> <li>Model QB-8100-EPA: 14.</li> <li>Model QB-8150-EPR(-100</li> <li>Model QB-8150-EPR(</li></ul>	<ul> <li>Pahrenheit)</li> <li>Pahrenheit)</li> <li>Iity (non-condensing)</li> <li>Iity (non-condensing)</li> <li>Iity (non-condensing)</li> <li>56 x 13.69 x 8.18 in. (3)</li> <li>15.94 x 15.94 x 9.21</li> <li>5 x 10.5 x 3.38 in (267 : 0): 14.17 x 14.17 x 3.70</li> <li>Ibs (6.8 kg)</li> <li>Ibs (1.1 kg)</li> <li>Ibs (6.8 kg)</li> <li>Ibs (3.5 kg)</li></ul>	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 9/ 0, EN 60950 N-type surge prot an integrated 23d ver cord s all recommende	34 mm) 4 mm) ected connectors Bi dual polarized p ed weatherproofin		
ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE 4UMIDITY P RATING VIND LOADING PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED AFETY STANDARDS	-55º to 80ºC (-67º to 176 Max 100% relative humic IP67 125 mph Model QB-8100-EPA: 14. Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 Model QB-8150-EPR(-100 UL 60950, CAN/CSA-C22. One Tsunami® QB-810 based on two QB or One Tsunami® QB-910 based on two QB Two power injector ar Two Wall / Pole mour Two Connector weath Two Serial (RJ-11 to D Two Grounding kit	P Fahrenheit) lity (non-condensing) lity (non-condensing) lity (non-condensing) solution (non-condensing) lity (non-condensing) solution (non-condension) solution (non-condension) solution (non-condension) (	in. (405 x 405 x 2 x 267 x 86 mm) in (370 x 370 x 9/ ), EN 60950 N-type surge prot an integrated 23d ver cord s all recommende r QB-8150-LNK-10	34 mm) 4 mm) ected connectors Bi dual polarized p ed weatherproofin		

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<sup>•</sup> Backhaul to a Central POP Avoid expensive installation and recurring charge of a second wire line backhaul to a remote virtual POP

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



<sup>•</sup> Leased Line Redundancy