

Tsunami<sup>®</sup> QuickBridge 8200 Series

#### **Wireless Product Portfolio**

- Tsunami<sup>®</sup> 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. High PowerPoint-to-Point Wireless Bridge Bundle

# Next generation of field-proven Tsunami<sup>®</sup> 8000 Wireless Backhaul Solution that Exceeds 4G Speed Requirements with 300 Mbps data rate!

The Tsunami® QB-8200, is a high power, extremely reliable and a cost-effective, non-line-ofsight 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, the Tsunami® QB-8200 satisfies carriers, wireless service providers and Government organizations with requirements for fast and reliable wireless backhaul.

The Tsunami<sup>®</sup> QB-8200 leverages the advantages of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP<sup>®</sup>) 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
- 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
- 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 clientto-client communications and leverages MAC, Ethertype 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<sup>®</sup> QB 8100

# Tsunami<sup>®</sup> QuickBridge 8200 Series

**Technical Specifications** 

PRODUCT MODELS QB-8200-LNK	Tsunami® OB 8200 Link 20	Mhns MIMO 2v2 Tu	ne-N Connectors /Tu	O OB-8200-FDA							
QB-8200-LINK QB-8250-LNK	Tsunami® QB 8200 Link, 300 Mbps, MIMO 3x3, Type-N Connectors (Two QB-8200-EPA) Tsunami® QB 8250 Link, 300 Mbps, MIMO 2x2, 23 dBi Integrated Antenna (Two QB-8250-EPR)										
UB-8250-LINK	raunanni QD 6230 LINK, 30	o wiops, willwiO 282, 23	abrintegrateu Aille	1110 (1 WU QD-023	o Li Nj						
WIRED ETHERNET	Two auto MDLV PIAE 10/1	00/1000Mbps Ethorpot									
	- Port #1 with PoE in & Dat	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										
WIRELSS PROTOCOL	WORP® (Wireless Outdoor Router Protocol)										
RADIO & TX SPECS											
MIMO	3x3MIMO										
MODULATION	OFDM										
FREQUENCY	4.900 – 5.925 GHz (Subject	to Country Regulations	)								
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz*	, ,		* Not a	applicable for DFS Band						
DATA RATE	MCS 0 to 15 for High Throu										
TX POWER	Up to 25.8 dBm (Triple cha		mops/ men synam		cion						
TX POWER CONTROL	0 – 25 dB, in 0.5 dB steps. /			40.444	5.444						
	Channel Size	40 MHz	20 MHz	10 MHz	5 MHz						
	MCS 0	-85 dBm	-90 dBm	-92 dBm	-95 dBm						
	MCS 7	-68 dBm	-71 dBm	-73 dBm	-76 dBm						
	MCS 8	-85 dBm	-88 dBm	-90 dBm	-93 dBm						
	MCS 15	-66 dBm	-69 dBm	-71 dBm	-74 dBm						
LATENCY	< 3 msec		a state of the state of the								
ANTENNA	Model QB-8200-EPA: three N-Type Antenna Connectors with built in Surge Protection										
	Model QB-8250-EPR: includes an 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, SNMPv3										
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB										
OTHER	Syslog, sFlow™ agent, SNT	and local time, Spectr	um analyzer								
SECURITY											
ENCRYPTION	AES-CCM 128 bits										
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication										
NETWORK											
MODES	Bridging (support LACP thr	ough external switches	, Routing (RIP v2 and	IP tunneling)							
THROUGHPUT	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) Model QB-8200-EPA and QB-8250-EPR: up to 246 Mbps										
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs										
QoS	Asymmetric Bandwidth Co		ownlink CIR Control	committed infor	mation rate" ner						
	Asymmetric bundwidth co										
	service flow Uplink and Downlink MIR Control "maximum information rate" per service flow										
	Packet Classification				)						
	Packet Classification 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP Capabilities source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype										
							Scheduling		aal Time Polling Serv	ices	
VIAN	Scheduling	Best Effort, R			tagging						
	802.1Q: Management VLA	Best Effort, R N. Transparent, Access,		ode. QinQ double	tagging						
POWER CONSUMPTION	-	Best Effort, R N. Transparent, Access,		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS	802.1Q: Management VLA	Best Effort, R N. Transparent, Access,		ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE	802.1Q: Management VLAI 12 Watt typical (22 Watt m	Best Effort, R N. Transparent, Access, nax)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140°	Best Effort, R N. Transparent, Access, hax) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176°	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176°	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit)		ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph	Best Effort, R N. Transparent, Access, Iax) Fahrenheit) Fahrenheit) y (non-condensing)	Trunk and Mixed mo	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 × 13.69 × 8.18 in. (370	Trunk and Mixed mo	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 k x 15.94 x 9.21 in. (405	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm)	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8250-EPR: 15.94	Best Effort, R N. Transparent, Access, Iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 x 15.94 x 9.21 in. (405 9 x 11.14 x 3.38 in (274 x	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 15.94 Model QB-8200-EPA: 10.79	Best Effort, R N. Transparent, Access, Iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 x 15.94 x 9.21 in. (405 9 x 11.14 x 3.38 in (274 x	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 15.94 Model QB-8200-EPA: 10.79	Best Effort, R    N. Transparent, Access, Jax)    Fahrenheit)    Fahrenheit)    y (non-condensing)    5x 13.69 x 8.18 in. (370    8x 15.94 x 9.21 in. (405    9x 11.14 x 3.38 in (274 x)    x 14.17 x 3.70 in (370 x)	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 10.79 Model QB-8200-EPA: 10.79 Model QB-8250-EPR: 14.17	Best Effort, R    N. Transparent, Access,    iax)    Fahrenheit)    Fahrenheit)    y (non-condensing)    5x 13.69 x 8.18 in. (370)    ix 15.94 x 9.21 in. (405)    ix 11.14 x 3.38 in (274)    ix 14.17 x 3.70 in (370)    ix (6.8 kg)	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8250-EPR: 14.57 Model QB-8250-EPR: 14.17 Model QB-8200-EPA: 10.75 Model QB-8200-EPA: 15 lb	Best Effort, R    N. Transparent, Access, iax)    Fahrenheit)    Fahrenheit)    y (non-condensing)    ix 13.69 x 8.18 in. (370)    ix 15.94 x 9.21 in. (405)    ix 11.14 x 3.38 in (274)    ix 14.17 x 3.70 in (370)    is (6.8 kg)    Libs (7.4 kg)	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED WEIGHT PACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8250-EPR: 15.94 Model QB-8250-EPR: 14.17 Model QB-8250-EPR: 15.19 Model QB-8200-EPA: 15 lb Model QB-8200-EPA: 15 lb Model QB-8200-EPA: 7.7 lb	Best Effort, R    N. Transparent, Access,    iax)    Fahrenheit)    Fahrenheit)    Fahrenheit)    y (non-condensing)    ix 13.69 x 8.18 in. (370)    ix 15.94 x 9.21 in. (405)    ix 11.14 x 3.38 in (274 x)    ix 14.17 x 3.70 in (370 x)    is (6.8 kg)   lbs (7.4 kg)    is (3.5 kg)	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm)	ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED WEIGHT PACKAGED UNPACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 10.75 Model QB-8200-EPA: 10.77 Model QB-8200-EPA: 10.75 Model QB-8200-EPA: 15.94 Model QB-8200-EPA: 15 lb Model QB-8250-EPR: 15.15	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 x 15.94 x 9.21 in. (405 3 x 11.14 x 3.38 in (274 7 x 14.17 x 3.70 in (370 ) 5 (6.8 kg) L lbs (7.4 kg) is (3.5 kg) is (4.1 kg)	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) ( 283 x 86 mm) ( 370 x 94 mm)	ode. QinQ double	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED UNPACKAGED UNPACKAGED SAFETY STANDARDS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 10.77 Model QB-8250-EPR: 14.17 Model QB-8200-EPA: 15 lb Model QB-8200-EPA: 15 lb Model QB-8200-EPA: 7.7 lk Model QB-8200-EPR: 9.0 lk UL 60950, CAN/CSA-C22.2	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 x 15.94 x 9.21 in. (405 9 x 11.14 x 3.38 in (274 x 14.17 x 3.70 in (370) s (6.8 kg) Llbs (7.4 kg) is (3.5 kg) is (4.1 kg) No. 60950, IEC 60950, IEC	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) ( 283 x 86 mm) ( 370 x 94 mm)	ode. QinQ double	e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED WEIGHT PACKAGED	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8250-EPR: 14.17 Model QB-8200-EPA: 10.79 Model QB-8250-EPR: 15.19 Model QB-8250-EPR: 15.19 Model QB-8250-EPR: 15.19 Model QB-8250-EPR: 15.11 Model QB-8250-EPR: 15.11 Model QB-8250-EPR: 9.0 It UL 60950, CAN/CSA-C22.2 One Tsunami® QB-8200	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 x 15.94 x 9.21 in. (405 9 x 11.14 x 3.38 in (274 3 x 14.17 x 3.70 in (370 : x 14.17 x 3.70 in (370 : s (6.8 kg) Llbs (7.4 kg) bs (3.5 kg) bs (4.1 kg) No. 60950, IEC 60950, E LLNK	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm) x 370 x 94 mm) N 60950		e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 10.77 Model QB-8250-EPR: 14.17 Model QB-8250-EPR: 14.17 Model QB-8250-EPR: 16.31 Model QB-8250-EPR: 16.31 Model QB-8250-EPR: 9.0 II UL 60950, CAN/CSA-C2.22 One Tsunami° QB-8200- based on two QB-8200-	Best Effort, R    N. Transparent, Access,    iax)    Fahrenheit)    Fahrenheit)    Fahrenheit)    y (non-condensing)    5 x 13.69 x 8.18 in. (370    ix 15.94 x 9.21 in. (405    ix 11.14 x 3.38 in (274 i)    ix 14.7 x 3.70 in (370 i)    is (6.8 kg)    i. lbs (7.4 kg)    is (3.5 kg)    is (3.5 kg)    is (4.1 kg)    No. 60950, IEC 60950, F    -UNK    EPA with three N-type is	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 283 x 86 mm) x 370 x 94 mm) N 60950		e tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8250-EPR: 15.94 Model QB-8200-EPA: 10.79 Model QB-8250-EPR: 14.17 Model QB-8250-EPR: 16.33 Model QB-8250-EPR: 9.0 lt Model QB-8250-EPR: 9.0 lt Model QB-8250-EPR: 9.0 lt UL 60950, CAN/CSA-C22.2 One Tsunami® QB-8250 or One Tsunami® QB-8250	Best Effort, R    N. Transparent, Access,    iax)    Fahrenheit)    Fahrenheit)    Fahrenheit)    y (non-condensing)    is x 13.69 x 8.18 in. (370    ix x 13.69 x 9.21 in. (405    ix 11.14 x 3.38 in (274 x    ix 14.17 x 3.70 in (370 x)    is (3.5 kg)    is (3.5 kg)    is (4.5 kg)    No. 60950, IEC 60950, E    PAN    HNK    EPA with three N-type s	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) x 405 x 234 mm) x 370 x 94 mm) N 60950 surge protected cont	hectors	tagging						
POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY WIND LOADING WATER & DUST PROOF PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED SAFETY STANDARDS	802.1Q: Management VLA 12 Watt typical (22 Watt m -40° to 60°C (-40° to 140° -55° to 80°C (-67° to 176° Max 100% relative humidit 125 mph IP67 Model QB-8200-EPA: 14.56 Model QB-8200-EPA: 15.99 Model QB-8200-EPA: 15.99 Model QB-8200-EPA: 15.13 Model QB-8200-EPA: 9.0 IE UL 60950, CAN/CSA-C22.2 One Tsunami® QB-8200 based on two QB-8250- based on two QB-8250-	Best Effort, R N. Transparent, Access, iax) Fahrenheit) Fahrenheit) y (non-condensing) 5 x 13.69 x 8.18 in. (370 k x 15.94 x 9.21 in. (405 9 x 11.14 x 3.38 in (274 x 14.17 x 3.70 in (370) x 11.14 x 3.38 in (274 x 14.17 x 3.70 in (370) s (5.6 & kg) Libs (7.4 kg) s (3.5 kg) s (3.5 kg) s (4.1 kg) No. 60950, IEC 60950, FE -LINK EPA with three N-type s- LINK EPA with an integrated	Trunk and Mixed mo x 348 x 208 mm) x 405 x 234 mm) ( 283 x 86 mm) ( 370 x 94 mm) N 60950 surge protected conr 23dBi dual polarizet	hectors	e tagging						
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### **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



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