

Tsunami® QB-10100S series

Extremely Secure Point-to-Point Wireless Bridge Bundle (Available in the USA only)



Enhance wireless security with Tsunami® QB-10100S series built in AES 256 capability

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range broadband wireless solutions.

The Tsunami® QB-10100S is an extremely secure version of the Tsunami® QB-10100, a very high throughput, high power, especially reliable and cost-effective, near-line-of-sight point-to-point (PtP) wireless backhaul solution.

Tsunami® QB-10100S can rely on the following features to satisfy carriers, wireless service providers and Government organizations that need ultra secure very high-speed carrier class wireless backhaul:



Proxim WORP® - Combines network access control, data scheduling, advanced QoS and encryption to ensure highly efficient and secure data transmission.

Proxim ClearConnect™, a suite of interference mitigation technologies ensuring robust and reliable communications in high-density wireless deployments.

World Class Performance

- Point-to-Point system that delivers up to 866 Mbps data rate and covers distances up to 25 miles (40 km)
- Very low latency of 2 to 3 ms to support voice and video applications over long distances
- Dual IPv4 and IPv6 stacks for transparent evolution to tomorrow networks.
- Built-in feature rich network protocols for bridging, routing and gateway functionality

Frequency Agnostic

- Operates in unlicensed bands from 4.900 to 5.925 GHz.
- Flexible RF planning with 20, 40 and 80 MHz channel size.

Near-Line-of-Sight and Advanced Features

- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Performs deep packet inspection (DPI) to create unique and sophisticated service rules and tiered service classes with ease
- Compatibility with LACP switches for link aggregation
- Spectrum analyzer to analyze frequency bands for interference, and select the best available channel

Carrier-Grade Backhaul

- Implements AES 256 encryption and Radius authentication 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/TLS1.2, SSH and SNMPv3
- Features Ethernet ports with pass-through IEEE 1588v2 synchronization and support for 9k Jumbo frames

Cost Effective and Ease of Use for Quick Return on Investment

- Suitable for Service Providers, Enterprises and Governments
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller
- Certified for deployments in the Americas, Europe and Asia
- The most cost-effective, very high performance point-to-point solution from Proxim, enabling any deployment to enjoy a quick return on investment

PRODUCT MODELS		PART NUMBERS			
QB-10100S-LNK	Tsunami® QB 10100 Link, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	902-00855	QB-10100S-LNK-US		
QB-10150S-LNK	Tsunami® QB 10150 Link, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna	902-00857	QB-10150S-LNK-US		
INTERFACES					
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)				
WIRELESS PROTOCOL	WORP® (Wireless Outdoor Router Protocol)				
RADIO & TX SPECS					
MIMO	2x2:2				
MODULATION	OFDM with BPSK, QPSK, QAM16, QAM64, QAM256				
FREQUENCY	4.900 – 5.925 GHz (Subject to Country Regulations)				
CHANNEL SIZE	80 MHz, 40 MHz and 20 MHz				
DATA RATE	MCS 0 to 9 with Dynamic Data Rate Selection				
TX POWER	Up to 28 dBm (dual chain)				
TX POWER CONTROL	0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit				
TX POWER	80 MHz	40 MHz	20 MHz		
	MCS0: 28	MCS0: 28	MCS0: 29		
	MCS9: 21	MCS9: 22	MCS8: 25		
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94		
	MCS9: -68	MCS9: -71	MCS8: -74		
THROUGHPUT	Up to 672 Mbps	Up to 324 Mbps	Up to 137 Mbps		
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-10100S-EPA	Two N-type Connectors with built-in Surge Protection				
QB-10150S-EPR	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna				
MANAGEMENT					
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, SNTP and local time, Spectrum analyzer				
SYNCHRONIZATION					
	Pass-through IEEE 1588v2 Ethernet Synchronization				
SECURITY					
ENCRYPTION	AES 128 and AES 256				
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)				
QoS					
	Asymmetric Bandwidth Control	Asymmetric UL/DL committed and maximum information rate per service flow			
	Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			
	Scheduling	Best Effort, Real Time Polling Services			
NETWORK					
MODES	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling)				
IP STACK	IPv4 and IPv6 simultaneously				
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS				
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging				
POWER	INPUT	OUTPUT			
	36 to 57 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports	48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port			
POWER CONSUMPTION					
	14 Watt typical, 17.5 Watt maximum				
ENVIRONMENTAL SPECS					
	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY, IP RATING	WIND LOADING	
	-40° to 60°C (-40° to 140° Fahrenheit)	-50° to 70°C (-58° to 158° Fahrenheit)	100% relative humidity, IP67	200 km/h (125 mph)	
PHYSICAL SPECS					
	PRODUCT MODELS	DIMENSIONS PACKAGED (per unit)	DIMENSIONS UNPACKAGED (per unit)	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
	QB-10100S-EPA	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)	9.92 lbs (4.5 kg)	4.20 lbs (1.9 kg)
	QB-10150S-EPR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	10.91 lbs (4.95 kg)	5.30 lbs (2.4 kg)
SAFETY STANDARDS					
	UL 60950, IEC 60950 (part -1 and -22)				
CERTIFICATIONS					
	USA: FCC 90Y + 15E (UNII 15.247)				
PACKAGE CONTENTS					
	<ul style="list-style-type: none"> One Tsunami® QB-10100S-LNK with two N-type surge protected connectors (Two QB-10100S-EPA) Or One Tsunami® QB-10150S-LNK with integrated 22 dBi dual polarized antenna (Two QB-10150S-EPR) Two power injector and country specific power cord Two Connector weatherproofing kit (Includes all recommended weatherproofing material) 		<ul style="list-style-type: none"> Two Wall / Pole mounting kit Two Antenna alignment (RJ11) dongle Two Grounding kit Two Quick Installation Guide 		
MTBF & WARRANTY					
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available				