Tsunami® QB-10100L Series
High Throughput Point-to-Point Wireless Bridge Bundle

Proxim introduces the all new Tsunami Quickbridge® 10100L wireless backhaul solution that delivers over 300 Mbps of throughput

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range broadband wireless solutions. Proxim introduces the Tsunami® QB-10100L, a software License controlled version of Tsunami® QB-10100 that delivers up to 400 Mbps data rate in a 40 MHz channel. The Tsunami® QB-10100L benefits from all advantages and features of Tsunami® QB-10100 and it can be field license upgraded to very high throughput mode of over 600Mbps of useable capacity.

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

World Class Performance

- Point-to-Point system that delivers up to 400 Mbps data rate and covers distances up to 18.5 miles (30 km)
- Very low latency of 2 to 3 ms to support voice and video applications over long distances
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks
- Built-in feature rich network protocols for bridging, routing and gateway functionality

Near-Line-of-Sight and Advanced Features

- Near-line-of-sight capable, utilizing OFDM and enhanced 2x2 MIMO techniques for better RF propagation
- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Enables packet identification to create unique and sophisticated service rules and tiered service classes with ease
- Compatibility with LACP switches for link aggregation
- Built in spectrum analyzer to help study frequency bands for interference, and select a relatively low interference channel

Carrier-Grade Backhaul

- Implements AES 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 frame

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
QB-10100L-LNK  Tsunami® QB 10100 Link Lite, single radio, 400 Mbps, MIMO 2x2, Type-N Connectors
QB-10150L-LNK  Tsunami® QB 10150 Link Lite, single radio, 400 Mbps, MIMO 2x2, 22 dBi antenna
QB-10100L-LNK-866-UPG  Tsunami® QB 10100 Link Lte . 400 Mbps to 866 Mbps license upgrade

RADIO & TX SPECS
Scheduling
Packet Classification Capabilities
Asymmetric Bandwidth Control

INTERFACES
WIRED ETHERNET  Two auto MDX Rx48 10/100/1000/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)
WIRELESS PROTOCOL  WORP® (Wireless Outdoor Router Protocol)

PACKAGE CONTENTS
- One Tsunami® QB 10100L-LNK with two N-type surge protected connectors (Two QB-10100L-EPA)/
  Or One Tsunami® QB 10150-LINK with integrated 22 dBi dual polarized antenna (Two QB-10150L-EPR)  
  - Two power injector and country specific power cord
  - Two Connector weatherproofing kit (Includes all recommended weatherproofing material)
- 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.

POWER
INPUT
36 to 57 VDC via Ethernet port (Power over Ethernet)
12 VDC via Access port
Power should not be provided simultaneously on both ports.

POWER CONSUMPTION
- 17 Watt typical
- 48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled)
- 12 VDC on Access port

ENVIRONMENTAL SPECS
- OPERATING TEMPERATURE: -40º to 60ºC (-40º to 140º Fahrenheit)
- STORAGE TEMPERATURE: -50º to 70ºC (-58º to 158º Fahrenheit)
- HUMIDITY, IP RATING, WIND LOADING: 100% relative humidity, IP67, 180 km/h (112 mph)

PHYSICAL SPECS
- PRODUCT MODELS
  - QB-10100L-EPA: 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)
  - QB-10150L-EPR: 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)

- WEIGHT
  - QB-10100L-EPA: 9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)
  - QB-10150L-EPR: 12 x 12 x 3.40 in (305 x 305 x 85 mm)

SAFETY STANDARDS
- UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -2)

MANAGEMENT
- Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3
- SNMP
- OTHER
  - Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer

SECURITY
- AES 128
- Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)
- Asymmetric UL/DL committed and maximum information rate per service flow
- Asymmetric UL/DL committed and maximum information rate per service flow

SYNCHRONIZATION
- Pass-through IEEE 1588v2 Ethernet Synchronization
- 15 Watt typical

PRODUCT MODELS
QB-10100L-EPA  Two N-type Connectors with built-in Surge Protection
QB-10150L-EPR  Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna

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