Simplifying dense network backhauling with multiple QuickBridge synchronization

With the increase of wireless network using the 5 GHz band, finding interference free channel is becoming a challenge. To simplify channel planning task, Proxim wireless introduces Tsunami® QB-8200-LNK-G which adds multiple Link synchronization to the versatile and high performance Tsunami® 8200 series.

The Tsunami® QB-8200-LNK-G includes the capability to synchronize its internal clock to the one pulse per second signal of an external GPS receiver or an Ethernet based synchronization module. When loaded with Proxim’s optional WORP® Sync software, multiple QB-8200-LNK-G start following the same transmit/receive pattern and avoid interfering with each other even when using adjacent channels. Tsunami® QB-8200-LNK-G synchronization mechanism added to MIMO 3x3 nLOS functionality, advanced channel management capability and cutting edge QoS class of service ensures optimal delivery of voice, video and data applications.

With its incredible channel capacity & flexibility, high power radio, excellent spectrum efficiency and a highly evolved prioritization platform, the Tsunami® QB-8200-G-LNK satisfies carriers, wireless service providers and Government organizations with requirements for fast and reliable wireless backhaul.

**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
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks

**Optimal RF Management**
- Multiple Link synchronization based on PPS signal from GPS of Ethernet based Synchronization Module
- Non-line-of-sight capable, utilizing OFDM and 3x3 MIMO techniques to improve link performance and penetrate through or around obstructions better
- Spectrum analysis feature helps to study frequency bands for interference, and select a relatively low interference channel.
- Operates in licensed and unlicensed frequency bands from 4.900 to 5.925 GHz with support for 5, 10, 20 and 40MHz channel size

**Enhanced Feature set**
- Choice of WORP® or WORP® Sync protocol based on application requirements
- Dual Gigabit Ethernet ports with PoE in/out to power other devices like surveillance cameras and wireless access points
- Service flow based QoS with comprehensive packet identification to create unique and sophisticated service rules and tiered service classes with ease
- Compatibility with LACP switches for link aggregation

**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

**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® QB-8100

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**Proxim Wireless** is a global pioneer of broadband wireless systems that deliver the quadruple play of video, voice, data and mobility. Regardless of the application, our end-to-end product portfolio enables partners to custom-build the wireless solution that fits customer’s specific needs. Our point-to-point wireless backhaul products are available through our extensive global channel networks.
PRODUCT MODELS
QB-8200-G-LNK: Tsunami® QB 8200 Link, 300 Mbps, MIMO 3x3, GPS Sync ready, Type-N Connectors
QB-8250-G-LNK: Tsunami® QB 8250 Link, 300 Mbps, MIMO 2x2, GPS Sync ready, 23 dBi Integrated Antenna

INTERFACES
WIRELESS SPECIFICATIONS
- Two auto MDI-X R45s 10/100/1000Mps Ethernet
  - Port #1 with PoE in & Data
  - Port #2 with PoE out (802.3af pin out) & Data

WIRELESS PROTOCOL
WORP™ (Wireless Outdoor Router Protocol)

POWER CONSUMPTION
- 3x3MIMO

POWER CONSUMPTION
- 15.94 x 15.94 x 9.21 in. (405 x 405 x 234 mm)
- 31 lbs (14 kg)

PACKAGE CONTENTS

SAFETY STANDARDS
UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part 1 and -22)

MTBF & WARRANTY
- 250,000 hours & 1 year on parts and labor; ServPak Extended Support available.

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