Compact integrated antenna backhaul solution operating in the 5.900 – 6.425 GHz band.

Tsunami Quickbridge® 826 series is an incredibly cost-effective, Non Line-of-Sight Point-to-Point (PtP) wireless backhaul solution. With this complete “Hop-in-a-Box” solution delivering up to 100 Mbps throughput, deployments of all sizes will enjoy a quick return on investment.

With excellent spectrum efficiency and a highly evolved prioritization platform tailored to deliver voice, video and data applications, Tsunami Quickbridge® 826 series satisfies carriers, wireless service providers and Government organizations with requirements for reliable cost optimized high performance wireless backhaul operating in the 5.900 – 6.425 GHz band.

World-class Performance

- Features a very small form factor and an outdoor rated IP67 Metal enclosure
- Available with 15 dbi integrated antenna
- 100Mbps of throughput with maximum data rates of 300Mbps
- Provides flexible channel planning with support for 5.900 to 6.425 GHz
- Comes with a 2x2 MIMO high power radio capable of 25 dBm transmit power
- Allows flexible bandwidth allocation for service tiers
- Spectrum analysis feature helps to study frequency bands for interference, and select a relatively low interference channel

All-in-One Link with Security Features

- Built-in feature rich network protocols for Bridging and Routing
- Advanced encryption protects over-the-air transmission via AES-128
- Radio mutual authentication eliminates unauthorized use of the system by rogue End Point and man-in-the middle attacks
- MAC, Ether type, IP address packet filtering provides granular network security
- Uses Proxim’s Wireless Outdoor Routing Protocol (WORP®) to prevent snooping
- Features highly-secure remote management via SSL, SSH and SNMPv3

Reducing Costs for Wireless ISPs

- Low-cost bundle including both radio and mounting kit provides the industry’s most aggressive price point, enabling any deployment to enjoy a quick return on investment
- Comes as a complete “Hop-In-A-Box” compact outdoor form factor offering unprecedented ease of installation
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.
PRODUCT MODELS
QB-826-LNK-100 Tsunami QB 826 Link, 100 Mbps, MIMO 2x2, 15dBi integrated antenna (Two QB-826-EPR-100)

INTERFACES
WIRELESS PROTOCOL One auto MDI-X RJ45 10/100Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol)

RADIO & TX SPECS
MIMO 2x2 MIMO MODULATION OFDM with BPSK, QPSK, QAM16, QAM64
OPERATING FREQUENCY 5.900 – 6.425 GHz (Subject to Country Regulations)
CHANNEL SIZE 40 MHz, 20 MHz, 10 MHz, 5 MHz channel bandwidths
DATA RATE MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection
TX POWER Up to 25 dBm (dual chain)
TX POWER CONTROL 0 – 20 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit

<table>
<thead>
<tr>
<th>Channel Size</th>
<th>40 MHz</th>
<th>20 MHz</th>
<th>10 MHz</th>
<th>5 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>RX SENSITIVITY</td>
<td>-90dBm</td>
<td>-93dBm</td>
<td>-97dBm</td>
<td>-100dBm</td>
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<tr>
<td>MCS 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCS 7</td>
<td>-70dBm</td>
<td>-73dBm</td>
<td>-75dBm</td>
<td>-78dBm</td>
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<td>MCS 8</td>
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<td>-91dBm</td>
<td>-94dBm</td>
<td>-96dBm</td>
</tr>
<tr>
<td>MCS 15</td>
<td>-66dBm</td>
<td>-69dBm</td>
<td>-71dBm</td>
<td>-74dBm</td>
</tr>
</tbody>
</table>

OTHER
Dynamic Channel Selection (DCS) based on interference detection
Automatic Transmit Power Control (ATPC) with EIRP limit support

ANTENNA
Integrated 15 dBi dual Polarized (H+V) 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

SECURITY
ENCRYPTION AES-CCM 128 bits
AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

QoS
Asymmetric Bandwidth Control UL and DL CIR Control “committed information rate” per service flow
Packet Classification UL and DL MIR Control “maximum information rate” per service flow
Capabilities 802.1D/802 1Q/802.1p priority, IPTOS, VLANID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype
Scheduling Best Effort, Real Time Polling Services

NETWORK
MODES Bridging, Routing (RIP v2 and IP tunneling)
IP STACK IPv4 and IPv6 simultaneously
THROUGHPUT Up to 100 Mbps
GATEWAY FEATURES DHCP Server & relay, NAT with Std ALGs
VLAN 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging

POWER CONSUMPTION
6 Watt typical (15 Watt max)

ENVIRONMENTAL SPECS
OPERATING TEMPERATURE -40º to 55ºC (-40º to 131º Fahrenheit)
STORAGE TEMPERATURE -55º to 70ºC (-67º to 158º Fahrenheit)
HUMIDITY - Water & Dust Proof Max 100% relative humidity (non-condensing) - IP67
WIND LOADING 180 km/h (112 mph)

PHYSICAL SPECS
MP-820-BSU-100/SUA-50+/SUA-100 13.97 x 8.86 x 6.92 in (355 x 225 x 176 mm)
13.97 x 8.86 x 6.92 in (355 x 225 x 176 mm)
4.96 x 8.62 x 2.58 in (126 x 219 x 65.5 mm) – Each End Point
9.8 lbs (4.45 Kg)
2.1 lbs (0.950 kg) – Each end point

SAFETY STANDARDS
UL 60950-1/22
## PACKAGE CONTENTS

- One Tsunami® QB-826-LNK-100 with integrated antenna *(Two Tsunami® QB-826-EPR-100)*
- Two 20 W power injector and country specific power cord
- Two basic Pole mounting kit
- Two Connector weatherproofing kit *(Includes all recommended weatherproofing material)*
- Two Grounding kit
- Two Quick Installation Guide

## MTBF & WARRANTY

- MTBF over 200,000 hours & 2-year warranty with ServPak Extended Support available