Secure Carrier Class backhaul

The Tsunami Quickbridge® 10100S offers all the benefits of the QB-10100 product family, with the enhanced security offered by the use of AES 256 encryption. This encrypted data is then encapsulated in the WORP® protocol that adds an additional layer of security.

The Tsunami Quickbridge® 10100 series delivers high bandwidth backhaul with carrier class reliability in even the toughest of conditions.

Perfectly suited for the service provider or enterprise that needs to connect critical applications and services to the data center or the world.

The range of high-power, integrated and external antenna models provide the flexibility to design a backhaul link that will meet the most stringent criteria.

The Tsunami® Quickbridge® 10100 supports the following key features that are critical for carriers, wireless service providers and Government organizations that need to know they can rely on the network.

Rugged and Reliable

Designed for harsh environments, the Tsunami® QuickBridge® 10100 is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature extremes.

Highlights

• Service flow based QoS with deep packet inspection (DPI) to ensure that the most important data arrives with priority
• Very low latency enables support for time critical applications
• Operates in unlicensed bands from 4.900 to 5.925 GHz
• Flexible RF planning with 20, 40 and 80 MHz channel size
• Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas
• Deployment tools include spectrum analyzer, antenna alignment and remote management configuration
• Fully integrates within ProximVision® Advanced Carrier Management System.

Enabling Technologies

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.

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.
## Specifications

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QB-10100S-LNK</td>
<td>902-00855 QB-10100S-LNK-US</td>
</tr>
<tr>
<td>QB-10150S-LNK</td>
<td>902-00857 QB-10150S-LNK-US</td>
</tr>
</tbody>
</table>

### 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 Control:** Up to 28 dBm (dual chain)
  - Automatic TPC with configurable EIRP limit

### PHY specs
<table>
<thead>
<tr>
<th>80 MHz</th>
<th>40 MHz</th>
<th>20 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX Power</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>RX Sensitivity (Per=10%)</td>
<td>-89</td>
<td>-93</td>
</tr>
</tbody>
</table>

### 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**
- **QB-10150S-EPR**
  - Two N-type Connectors with built-in Surge Protection
  - Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna

### Management
- **Remote SNMP**
  - Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3
  - Syslog, sFlow® agent, SNTP and local time, Spectrum analyzer

### Synchronization
- Pass-through IEEE 1588v2 Ethernet Synchronization

### Security
- **Encryption Authentication**
  - AES 128 and AES 256
  - Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

### QoS
- Asymmetric Bandwidth Control
- Packet Classification Capabilities
- Scheduling

### Network
- **Modes IP Stack**
- Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling)
- IPv4 and IPv6 simultaneously
- DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS
- 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging

### Power Consumption
- 14 Watt typical, 17.5 Watt maximum

### Environmental Specs
- **Operating Temperature:** -40°C to 60°C (-40°F to 140°F Fahrenheit)
- **Storage Temperature:** -50°C to 70°C (-58°F to 158°F Fahrenheit)
- **Humidity - IP Rating:** 100% relative humidity - IP67
- **Wind Loading:** 200 km/h (125 mph)
<table>
<thead>
<tr>
<th>PHYSICAL SPECS</th>
<th>DIMENSIONS PACKAGED</th>
<th>DIMENSIONS UNPACKAGED</th>
<th>WEIGHT (PACKAGED)</th>
<th>WEIGHT (UNPACKAGED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QB-10100S-EPA</td>
<td>14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)</td>
<td>9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)</td>
<td>9.92 lbs (4.5 kg)</td>
<td>4.20 lbs (1.9 kg)</td>
</tr>
<tr>
<td>QB-10150S-EPR</td>
<td>14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)</td>
<td>12 x 12 x 3.40 in (305 x 305 x 85 mm)</td>
<td>10.91 lbs (4.95 kg)</td>
<td>5.30 lbs (2.4 kg)</td>
</tr>
</tbody>
</table>

SAFETY STANDARDS
UL 60950, IEC 60950 (part -1 and -22)

CERTIFICATIONS
USA: FCC 90Y + 15E (UNII 15.247)

PACKAGE CONTENTS
- 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)
- 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.