Secure Carrier Class backhaul

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

The Quickbridge® 10100S 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 Quickbridge® 10100S 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 QuickBridge® 10100S 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.

Multi-Language Support
Web Interface available in English, French, Spanish and Chinese
## Specifications

### PRODUCT MODELS

<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
- Up to 28 dBm (dual chain)

#### TX Power Control
- 0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

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

### Management

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

#### Other
- Multi-Language Support
- Web Interface available in English, French, Spanish and Chinese

#### Synchronization
- Pass-through SyncE and Precision Time Protocol (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
- 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType

#### Packet Classification Capabilities
- 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 port (Power over Ethernet)
- 12 VDC via Access port
- 48 to 57 VDC – 25 Watt on Ethernet port (PoE – software controlled)
- 12 VDC on Access port

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

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE</th>
<th>STORAGE TEMPERATURE</th>
<th>HUMIDITY - IP RATING</th>
<th>WIND LOADING</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40º to 60ºC (-40º to 140º Fahrenheit)</td>
<td>-50º to 70ºC (-58º to 158º Fahrenheit)</td>
<td>100% relative humidity - IP67</td>
<td>200 km/h (125 mph)</td>
</tr>
</tbody>
</table>

### PHYSICAL SPECS

<table>
<thead>
<tr>
<th></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.