



## Bandwidth Upgradable Backhaul Solutions

Quickbridge<sup>®</sup> 10100L, is a license controlled version of Quickbridge<sup>®</sup> 10100 family and is capable of delivering over 320 Mbps of useable data. The Quickbridge<sup>®</sup> 10100L can be field upgraded to support over 670 Mbps.

The Quickbridge<sup>®</sup> 10100L 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<sup>®</sup> 10100L 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<sup>®</sup> 10100L 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 and 40 MHz channel size (80 MHz option via license upgrade)
- 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<sup>®</sup> Advanced Carrier Management System.

## Enabling Technologies

### Proxim WORP<sup>®</sup>

Combines network access control, data scheduling, advanced QoS and encryption to ensure highly efficient and secure data transmission.

### Proxim ClearConnect<sup>™</sup>

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

## 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

PRODUCT MODELS		PART NUMBERS
QB-10100L-LNK	Tsunami® QB 10100 Link Lite, single radio, 400 Mbps, MIMO 2x2, Type-N Connectors	902-00827 QB-10100L-LNK-US 902-00831 QB-10100L-LNK-WD
QB-10150L-LNK	Tsunami® QB 10150 Link Lite, single radio, 400 Mbps, MIMO 2x2, 22 dBi antenna	902-00829 QB-10150L-LNK-US 902-00833 QB-10150L-LNK-WD
QB-10100L-LNK-866-UPG	Tsunami® QB 10100 Link Lite , 400 Mbps to 866 Mbps license upgrade	997-00034 QB-10100L-LNK-866-UPG
INTERFACES		
WIRED ETHERNET WIRELESS PROTOCOL	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data) 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	40 MHz and 20 MHz (±5ppm channel accuracy)	
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	
	<b>40 MHz</b>	<b>20 MHz</b>
TX POWER (dual RF)	MCS0: 28 MCS9: 22	MCS0: 29 MCS8: 25
RX SENSITIVITY (Per=10%)	MCS0: -93 MCS9: -71	MCS0: -94 MCS8: -74
THROUGHPUT (RFC 2544)	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-10100L-EPA QB-10150L-EPR	Two N-type Connectors with built-in Surge Protection Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna	
MANAGEMENT		
REMOTE SNMP OTHER Multi-Language Support	Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer Web Interface available in English, French, Spanish and Chinese	
SYNCHRONIZATION		
	Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization	
SECURITY		
ENCRYPTION AUTHENTICATION	AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)	
QoS		
Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling	Asymmetric UL/DL committed and maximum information rate per service flow 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType Best Effort, Real Time Polling Services	
NETWORK		
MODES IP STACK GATEWAY FEATURES VLAN	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		OUTPUT
	<b>INPUT</b>	<b>OUTPUT</b>
	36 to 57 VDC via Ethernet port1 (Power over Ethernet)  12 VDC via Access port Power should not be provided simultaneously on both ports.	48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port

POWER CONSUMPTION				
	14 Watt typical, 17.5 Watt maximum			
ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING
	-40° to 60°C (-40° to 140° Fahrenheit)	-50° to 70°C (-58° to 158° Fahrenheit)	100% relative humidity - IP67	200 km/h (125 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
QB-10100L-EPA	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)	9.92 lbs (4.5 kg)	4.20 lbs (1.9 kg)
QB-10150L-EPR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	10.91 lbs (4.95 kg)	5.30 lbs (2.4 kg)
SAFETY STANDARDS				
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)			
CERTIFICATIONS				
	USA: FCC 90Y + 15E (UNII 15.247), Canada: IC RSS 102 + RSS 111 + RSS 247 Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> <li>• One Tsunami® QB-10100L-LNK with two N-type surge protected connectors (Two QB-10100L-EPA) Or One Tsunami® QB-10150L-LNK with integrated 22 dBi dual polarized antenna (Two QB-10150L-EPR)</li> <li>• Two power injector and country specific power cord</li> <li>• Two Connector weatherproofing kit (Includes all recommended weatherproofing material)</li> <li>• Two Wall / Pole mounting kit</li> <li>• Two Antenna alignment (RJ11) dongle</li> <li>• Two Grounding kit</li> <li>• Two Quick Installation Guide</li> </ul>			
MTBF & WARRANTY				
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available.			