Quickbridge® 10100(L) Series

Product Snaphot

The QuickBridge® 10100(L) series is a range of wireless bridge-in-a-box solutions operating in the 5GHz band.

For those who need a flexible range of options, the various integrated antenna and connectorized models provide an excellent tool kit capable of connecting short to long-range links.

- Wide Band 4.9 + 5 GHz Radio

- 2×2 MIMO radio delivering up to 672 Mbps

- Advanced QoS for quad-play applications

- AES 128 encryption and Radius authentication

- 20, 40, and 80 MHz channels.

Powered by WORP®

Proxim WORP enables the most efficient wireless broadband access possible in a packet-based network. Advanced QoS controls, committed interface rates, latency controls, IGMP snooping, and native multicast support allow granular service level management and the best video performance available in this product class.

Advanced Interference Management

Proxim ClearConnectTM combines multiple dynamic technologies and delivers the best interference management solution available..

Secure

AES 128 encryption with Radius-based authentication and secure management through SSL/ TLS1.2, SSH, and SNMPv3.

Rugged Reliability

IP67 rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

Specifications

PRODUCT MODELS

QB-10100L-LNK-WD	Tsunami® QB 10100 Link Lite, two radio endpoints, 400 Mbps, MIMO 2x2, Type-N Connectors	PN: 902-00831
QB-10150L-LNK-WD	Tsunami® QB 10150 Link Lite, two radio endpoints, 400 Mbps, MIMO 2x2, 22 dBi antenna	PN: 902-00833
QB-10150-LKL-WD	Tsunami QB 10150 Link Long-range, 867 Mbps, MIMO 2×2, 28 dBi panel antenna (two QB-10150-EPL-WD)	PN: 902-00780
QB-10100L-LNK-866-UPG	Tsunami® QB 10100 Link Lite , 400 Mbps to 866 Mbps license upgrade	PN: 997-00034

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	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

	80 MHz	40 MHz	20 MHz
TX POWER (dual RF)	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm
	MCS9: 21 dBm	MCS9: 22 dBm	MCS9: 25 dBm
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm
	MCS9: -68 dBm	MCS9: -71 dBm	MCS9: -74 dBm
THROUGHPUT (RFC 2544)	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		

MANAGEMENT

REMOTE	Telnet and SSH, Web GUI and SSL/TLS1.2, 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
Multi-Language Support	Web Interface available in English, French, Spanish and Chinese

SYNCHRONIZATION

	Pass-trough SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization

SECURITY

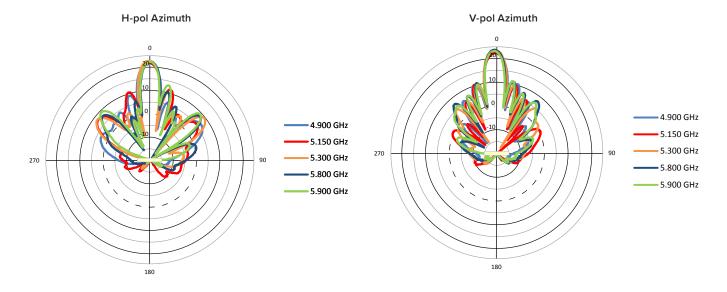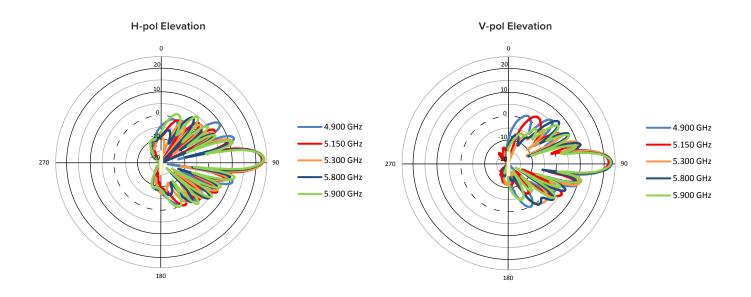|	
ENCRYPTION	AES 128, upgradeable to AES 256
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

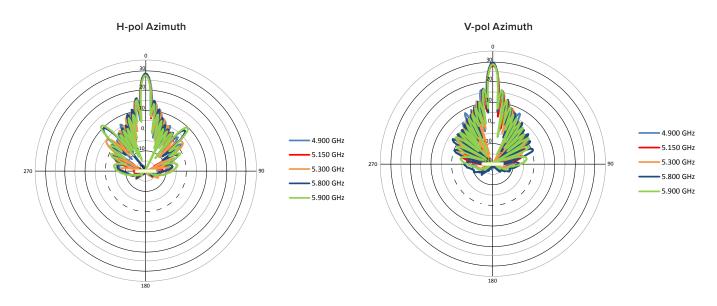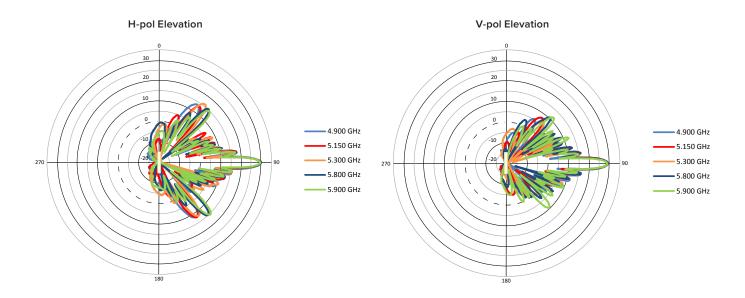| QB-10100L-EPA | Two N-type Connectors with built-in Surge Protection |
| QB-10150L-EPR | Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna |
| QB-10150-EPL | Integrated 2×2 MIMO 28dBi Dual Polarized 2 feet Panel Antenna |

ANTENNA PATTERNS (Sector Mode)

QB-10150L-EPR

H-pol Azimuth

V-pol Azimuth

H-pol Elevation

V-pol Elevation

QB-10150-EPL

H-pol Azimuth

- 4.900 GHz
- 5.150 GHz
- 5.300 GHz
- 5.800 GHz
- 5.900 GHz

V-pol Azimuth

- 4.900 GHz
- 5.150 GHz
- 5.300 GHz
- 5.800 GHz
- 5.900 GHz

H-pol Elevation

- 4.900 GHz
- 5.150 GHz
- 5.300 GHz
- 5.800 GHz
- 5.900 GHz

V-pol Elevation

- 4.900 GHz
- 5.150 GHz
- 5.300 GHz
- 5.800 GHz
- 5.900 GHz

QoS

Asymmetric Bandwidth Control	Asymmetric UL/DL committed and maximum information rate per service flow
Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType
Scheduling	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 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 NPACKAGED	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)
QB-10150-EPL	27.55 x 6.85 x 27.55 in (700 x 174 x 700 mm)	23.62 x 23.62 x 3.85 in (600 x 600 x 92 mm)	23.15 lbs (10.5 kg)	14.33 lbs (6.5 kg)

SAFETY STANDARDS

IEC 62368-1:2016 & 60950-22:2016

UL 62368-1 2nd edition & 60950-22 2nd edition

CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17

EN 62368-1:2014 + A11:2017 & 60950-22:2017

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

- 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)
  Or One Tsunami® QB-10150-LKL with integrated 28 dBi dual polarized antenna (Two QB-10150-EPL
- 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.

ABOUT PROXIM WIRELESS:

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications. Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.