Bandwidth licensed to support 50, 100 and 200 Mbps throughput options.

The Quickbridge® 10100-xxx, is a compact bandwidth controlled version of the Quickbridge® 10100 product family, and offers all the advanced features and benefits of the 10100 series with lower cost of entry. The ability to scale the bandwidth from 50 to 200 Mbps as needed allows the network designer to right-size the link to suit the needs of the application.

This highly reliable and compact product is ideal for installation in cities and by major highways, where wireless point-to-point networks provide the best and lowest cost backhaul of video, radar and traffic control data.

The 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 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.

Multi-Language Support

Web Interface available in English, French, Spanish and Chinese

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.

Specifications

PRODUCT MODELS		PART NUMBERS
QB-10100-LNK-50	Tsunami QB 10100 Link, 50 Mbps, MIMO 2x2, Type-N Connectors (two QB-10100-EPA-50)	902-00847 QB-10100-LNK-50-US
		902-00849 QB-10100-LNK-50-WD
QB-10100-LNK-100	Tsunami QB 10100 Link, 100 Mbps, MIMO 2x2, Type-N Connectors (two QB-10100-EPA-100)	902-00851 QB-10100-LNK-100-US
		902-00853 QB-10100-LNK-100-WD
LICENSE UPGRADE		
QB-10100-LNK-100-UPG	Tsunami QB 10100 Link, 50 Mbps to 100 Mbps license upgrade | Part Number : 997-00038	
QB-10100-LNK-200-UPG	Tsunami QB 10100 Link, 100 Mbps to 200 Mbps license upgrade | Part Number : 997-00039	
INTERFACES		
WIRED ETHERNET	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in	
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 (±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	MCS0: 28	MCS0: 29
	MCS9: 21	MCS9: 22	MCS8: 25
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94
	MCS9: -68	MCS9: -71	MCS8: -74

THROUGHPUT	License controlled to 50, 100 or 200 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-10100-EPA	Two N-type Connectors

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
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
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

QoS	
Asymmetric Bandwidth Control	Asymmetric UL/DL committed and maximum information rate per service flow
Packet Classification	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType
Capabilities	
Scheduling	Best Effort, Real Time Polling Services

NETWORK	
MODES	Bridging, 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 SUPPLY	
	36 to 57 VDC via Ethernet port (Power over Ethernet)
	12 VDC via Access port
	Power should not be provided simultaneously on both ports.

POWER CONSUMPTION	
	11.5 Watt typical, 15.5 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	180 km/h (112.5 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
QB-10100-EPA	11.81x10.83x5.31 in (300x275x135 mm)	5.02x8.68x2.85 in (127.5x220.5x72.5 mm)	6.39 lbs (2.9 kg)	2.75 lbs (1.250 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-10100-LNK with two N-type connectors (Two QB-10100-EPA) • Two power injector and country specific power cord • Two Connector weatherproofing kit (Includes all recommended weatherproofing material) • Two Pole mounting kit • Two Grounding kit • Two Quick Installation Guide

MTBF & WARRANTY
MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available.