



快速灵活的回程解决方案

Tsunami Quickbridge® 10100系列可在最恶劣的条件下提供高带宽回程和可靠的运营商级服务。

非常适合需要将关键应用程序和服务连接到数据中心或全球的服务供应商或企业。

高功率、高度集成和不同外部天线型号系列，可灵活设计满足最严格标准的回程链路。

Tsunami® Quickbridge® 10100支持以下关键功能，这些功能对于那些需要了解他们所依赖的网络的运营商，无线服务供应商和政府组织至关重要。

强大且可靠

Tsunami® QuickBridge® 10100专为恶劣环境而设计，完全符合IP67防护等级，可在大风，高盐盐和极端高温环境中提供多年可靠的服务。

亮点

- 基于服务流的QoS和深度包检测 (DPI)，以确保最重要的数据优先到达
- 极低的延迟可以支持时间关键型应用程序
- 可在4.900至5.925 GHz的免许可频段内运行
- 灵活的RF规划，信道规格为20、40和80 MHz
- 高级正交频分复用技术 (OFDM) 提供的非视距功能以及2x2 MIMO可轻松部署在一些具有挑战性的领域
- 部署工具包括频谱分析仪，天线对准和远程管理配置
- 完美集成在ProximVision®高级运营商管理系统中。

实现技术

Proxim WORP®

-结合网络访问控制、数据调度排队、高级QoS和加密，以确保高效和安全的数据传输。

Proxim ClearConnect™

一套确保在高密度无线部署中进行稳定和可靠通信的干扰缓解技术。

关于Proxim Wireless

Proxim Wireless是全球先进的Wi-Fi、点对点、点对多点户外无线系统的先驱和领头羊，该系统用于建立关键任务和高可用性通信。

Proxim公司拥有超过30年的无线电方面的经验，以其无与伦比的可靠性，卓越的性能和创新动力而闻名。

规格

PRODUCT MODELS		PART NUMBERS	
QB-10100-LNK	Tsunami® QB 10100 Link, single radio, 866 Mbps, MIMO 2x2, Type-N Connectors	902-00769	QB-10100-LNK-US
QB-10150-LNK	Tsunami® QB 10150 Link, single radio, 866 Mbps, MIMO 2x2, 22 dBi antenna	902-00771	QB-10100-LNK-WD
QB-10150-LKL	Tsunami® QB 10150 Link Long-range, single radio, 866 Mbps, MIMO 2x2, 28 dBi antenna	902-00773	QB-10150-LNK-US
		902-00775	QB-10150-LNK-WD
		902-00779	QB-10150-LKL-US
		902-00780	QB-10150-LKL-WD
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 (±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	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	Up to 633 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-10100-EPA	Two N-type Connectors with built-in Surge Protection		
QB-10150-EPR	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna		
QB-10150-EPL	Integrated 2x2 MIMO 28dBi Dual Polarized 2 feet Panel Antenna		
MANAGEMENT			
REMOTE	Telnet and SSH, Web GUI and SSL/TLS, 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		
SYNCHRONIZATION			
	Pass-through 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 (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	QB-101x0-EPA/EPR - 200 km/h (125 mph) QB-10150-EPL - 180 km/h (112.5 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
QB-10100-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-10150-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				
	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"> • One Tsunami® QB-10100-LNK with two N-type surge protected connectors (Two QB-10100-EPA) Or One Tsunami® QB-10150-LNK with integrated 22 dBi dual polarized antenna (Two QB-10150-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.			