



设计方便简易和成本效益安装

Quickbridge® 10250 BeamX无线电通过攻克了复杂耗时的天线对准过程，加快了点对点网络的部署。智能波束控制技术首次应用于我们的多点基站，Multipoint 10250 BSX已经过改装，安装方便，成本效益高。现在，当Quickbridge®10250管理并保持最佳信噪比的微调时，端点之间的粗略对齐就足以让单元控制设置。

在非视距nLOS配置中，波束控制技术体现了它的价值，即使光束没有反射到端点之间的墙上时，也能实现对准优化。

始终开启的BeamX智能确保链路保持优化，以充分利用系统的高吞吐量能力

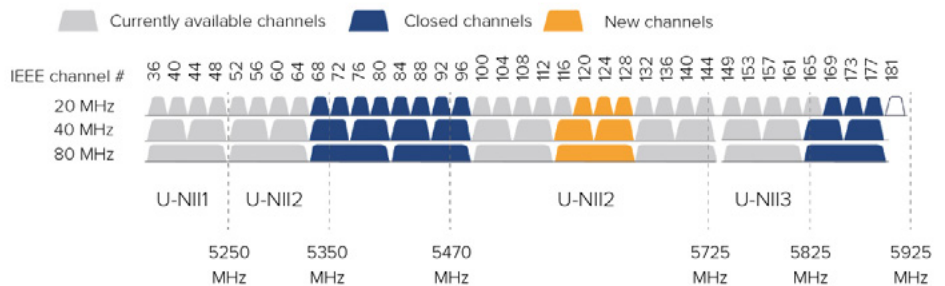
BeamX解决方案与二次前瞻性扫描无线电相结合，即使在高频干扰环境下也能提高性能。

快速、安全和灵活

- 点对点链路，提供高达866 Mbps的数据速率，覆盖10英里(16公里)的距离。
- 通过SSL/TLS1.2、SSH和SNMPv3实现AES 128加密、(可升级到AES-256)RADIUS认证和高度安全的远程管理
- 基于服务流的QoS与深度包检测技术(DPI)，确保关键数据优先到达
- 内置功能丰富的网络协议，实现IPv4和IPv6桥接、路由和网关功能

Proxim SmartScan™

- 对整个RF频谱进行背景分析，并创建通道可用性表，以便在天气雷达探测或干扰时立即切换到空闲通道
- SmartScan能够消除初始传输延迟，使DFS信道更加高效
- 它还开放了对5.600–5.650GHz子频段的访问，并能够有效使用高达355 MHz的DFS频谱



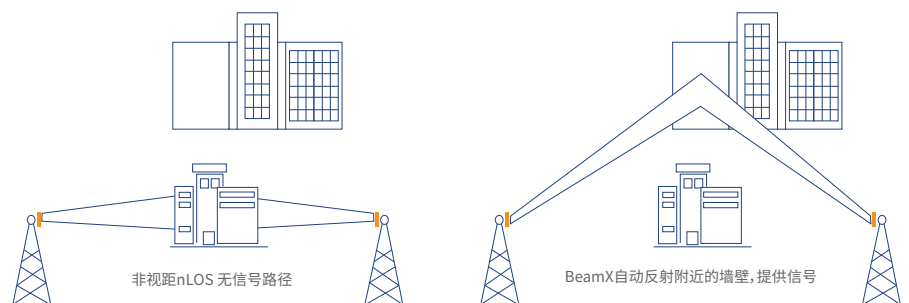
BeamX™天线

- 智能天线波束宽度约为17°，通过电子方式将自身引导至宽度为60°的远程用户单元，以限制来自附近RF源的干扰
- BeamX QB通过移除天线对准阶段来加速部署。大致瞄准远端，BeamX技术进行微调，优化SNR
- BeamX通过移除天线对准相位加快部署。BeamX技术主要针对远端进行微调，优化信噪比

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，该系统用于建立关重要任务和高度可用性通信。

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。



强大且可靠

Quickbridge®10250 BeamX产品专为恶劣环境设计，完全达到IP67防护安全级别，在大风、高盐 and 高温极端环境条件中将能提供多年的可靠服务。

主要技术

Quickbridge® 10250 BeamX设备支持以下应用功能的，包括last mile接入网技术或视频监控，两者都需要优先级和连续高速宽带无线访问：

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™

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。

Proxim SmartConnect™

通过运用波束控制天线与辅助扫描无线电相结合的方式，来寻找、管理和选择最佳通信频道，在存在嘈杂射频的地方提供优异的性能。

多语言支持

Web界面提供英语，法语，西班牙语和中文

规格

PRODUCT MODELS		PART NUMBERS			
QB-10250-LKX	Tsunami QB 10250 EndPoint, 867 Mbps, MIMO 2x2, BeamX antenna, SmartScan radio	902-00903	QB-10250-LKX-US	902-00905	QB-10250-LKX-WD
LICENSE UPGRADES					
QB-102x0-LKx-AES256-UPG	Tsunami QB 10200 Link, AES 128 to AES 256 license upgrade	997-00051			
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 and 0x2:2 (scan radio)				
MODULATION	OFDM with BPSK, QPSK, QAM16, QAM64, QAM256				
FREQUENCY	4.900 – 5.850 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				
	80 MHz	40 MHz	20 MHz	SCAN RADIO	
TX POWER (dual RF)	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm	N/A	
	MCS9: 21 dBm	MCS9: 22 dBm	MCS8: 25 dBm		
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm	N/A	
	MCS9: -68 dBm	MCS9: -71 dBm	MCS8: -74 dBm		
THROUGHPUT (RFC 2544)	Up to 672 Mbps	Up to 324 Mbps	Up to 137 Mbps	N/A	
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 - Integrated 2x2 MIMO Beam Steering Antenna:					
Beam Width	17° spanning over ± 30° sector				
Receive Gain	16 dBi (11 dBi before 5.150 GHz)				
Transmit Gain	20 dBi (11 dBi before 5.150 GHz)				

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 Chinese, English, French and Spanish				
SYNCHRONIZATION					
	Pass-through 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 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)		48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled)	
		12 VDC via Access port		12 VDC on Access port	
		Power should not be provided simultaneously on both ports			
POWER CONSUMPTION					
	30 Watt typical, 40 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-10250-LKX		18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)	14 x 14 x 3.40 in (371 x 371 x 85 mm)	13.67 lbs (6.2 kg)	7.27 lbs (3.3 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					
	<ul style="list-style-type: none"> • One Tsunami® QB-10250-LKX with integrated BeamX antenna and scan radio • 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				