

简洁型集成天线回程解决方案, 可提供50和100 Mbps数据处理量可选



Tsunami Quickbridge[®] 825外形简洁而且坚固, 是城市无线回程的理想解决方案。它非常适合在城市街道中进行分立安装, 并为视频监控、交通监控和交通灯管理系统的连接提供高可靠性。

凭借出色的频谱效率和专为语音, 视频和数据应用量身定制的高度发展的优先级平台, Tsunami Quickbridge[®] 825能够满足运营商, 无线服务供应商和政府机构对可靠的高性价比, 高性能无线回程的要求。

世界级性能

- 外形小巧, 室外额定IP67金属外壳, 可提供15 dBi集成天线
- 50 Mbps (许可证可升级至100 Mbps) 或直接100 Mbps处理量, 最大数据速率为300Mbps
- 提供灵活的信道规划, 支持4.900至5.000 GHz (L模板) 和5.150 - 5.925 GHz
- 配备2x2 MIMO高功率无线通信, 发射功率为26 dBm
- 允许灵活的服务层带宽分配
- 频谱分析功能有助于研究干扰频带, 并选择干扰相对较低的信道

具有安全功能的一体化链接

- 内置功能丰富的网络协议, 用于桥接和路由
- 通过AES-128高级加密保护无线传输
- 无线电相互认证消除了伪端点和中间人攻击对系统的未授权使用
- MAC, 以太网类型, IP地址包过滤提供精细的网络安全性
- 使用Proxim的无线室外路由协议 (WORP[®]) 来防止窥探
- 通过SSL, SSH和SNMPv3实现高度安全的远程管理

高性价比, 易于安装, 投资回报快

- 低成本捆绑包括无线电和安装套件, 提供业界最有优势的价格点, 使任何部署都能享受快速的投资回报
- 全球免授权频段提供可靠的无线宽带, 无需高额许可频率费用
- 作为一个完整的“Hop-In-A-Box”简洁型户外外形, 提供前所未有的轻松安装
- 简化的Web界面, 优化链接部署。如果需要, 仍可访问高级详细界面。
- 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
- 准备好同步以优化并置链路的信道使用

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。

规格

PRODUCT MODELS		PART NUMBERS			
QB-825-LNK-50+	Tsunami® QB 825 Link , 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-50+)	902-00638	QB-825-LNK-50+-US		
QB-825-LNK-100	Tsunami® QB 825 Link , 100 Mbps, MIMO 2x2, 15 dBi antenna (Two QB-825-EPR-100)	902-00637	QB-825-LNK-50+-WD	902-00591	QB-825-LNK-100-US
		902-00590	QB-825-LNK-100-WD		
INTERFACES					
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol) or WORP sync				
RADIO & TX SPECS					
MIMO	2x2 MIMO				
MODULATION	OFDM with BPSK, QPSK, QAM16, QAM64				
FREQUENCY	4.900 - 5.925 GHz (Subject to Country Regulations)				
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz*, 5 MHz* channel bandwidths * DFS availability is country dependent, check the User Guide				
DATA RATE	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection				
	BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps)				
TX POWER	Up to 26 dBm (dual chain)				
TX POWER CONTROL	0 – 15 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit				
	Channel Size	40 MHz	20 MHz	10 MHz	5 MHz
RX SENSITIVITY (PER=10 ⁻⁶)	MCS 0	-88 dBm	-92 dBm	-93 dBm	-94 dBm
	MCS 7	-72 dBm	-74 dBm	-75 dBm	-77 dBm
	MCS 8	-88 dBm	-91 dBm	-93 dBm	-94 dBm
	MCS 15	-69 dBm	-71 dBm	-72 dBm	-75 dBm
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-825-EPR-50+ and QB-825-EPR-100	Integrated 15 dBi dual Polarized (H+V) panel antenna (12 dBi before 5.000 GHz and 14 dBi beyond 5.850 GHz)				
MANAGEMENT					
LOCAL	RS-232 serial (RJ11 to DB-9 dongle provided)				
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				
SYNCHRONIZATION					
	Synchronize internal clock to Pulse Per Second signal received from either GPS module connected to RJ11 serial port or Ethernet Synchronization module connected to RJ45 ethernet port				
SECURITY					
ENCRYPTION	AES-CCM 128 bits				
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication				
QoS					
Asymmetric Bandwidth Control	Uplink and Downlink CIR Control "committed information rate" per service flow Uplink and Downlink MIR Control "maximum information rate" per service flow				
Packet Classification	802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype				
Capabilities	Best Effort, Real Time Polling Services				
Scheduling					
NETWORK					
MODES	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling)				
IP STACK	IPv4 and IPv6 simultaneously				
THROUGHPUT	QB-825-EPR-50+	Up to 50 Mbps (license upgradable to 100 Mbps)			
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs				
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging				

POWER SUPPLY				
	Via provided PoE injector or directly from 12 VDC source through serial port			
POWER CONSUMPTION				
	6 Watt typical (15 Watt max)			
ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - Water & Dust Proof	WIND LOADING
	-40° to 55°C (-40° to 131° Fahrenheit)	-55° to 70°C (-67° to 158° Fahrenheit)	Max 100% relative humidity (non-condensing) - IP67	180 km/h (112 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
	11.81 x 10.83 x 5.31 in (300 x 275 x 135 mm)	4.96 x 8.62 x 2.58 in (126 x 219 x 65.5 mm)	7.27 lbs (3.3 Kg)	2.1 lbs (0.950 kg)
SAFETY STANDARDS				
	UL 60950-1/22, CAN/CSA-C22.2 No. 60950-1/22, IEC 60950-1/22, EN 60950-1/22			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> • One Tsunami® QB-825-LNK-50+ / 100 with integrated antennas (Two Tsunami® QB-825-EPR-50+ / 100) • Two 32 W power injector with country specific power cord • Two Wall / Pole mounting kit • Two Connector weatherproofing kit (Includes all recommended weatherproofing material) • Two Serial (RJ-11 to DB9) dongle • Two Grounding kit • Two Quick Installation Guide 			
MTBF & WARRANTY				
	MTBF over 350,000 hours & 2-year warranty with ServPak Extended Support available			