



The compact and robust form factor of Tsunami® Multipoint 820 series is an ideal solution for urban wireless deployments. It is eminently suitable discrete mounting in city streets and offers high reliability for the connection of Video Surveillance, traffic monitoring and traffic light management systems.

The Tsunami[®] Multipoint 820 series is also adapted for in vehicle mounting and supports transparent roaming for data on the move.

High Performance

- Designed with a high 26 dBm power transmitter, and 2x2 MIMO technology, the 820 delivers excellent connectivity even in difficult conditions.
- The Non Line of Sight (NLOS) performance of the 820 series enables installation in challenging environments.

Compact, Quick and Easy to Install

Though designed in a small form factor, the 820 packs quite a punch and Comes ready to install with a complete "bring-your-own-pole" installation kit that includes basic pole mount and grounding kits, connector weather proofing kit and a power injector, The on board signal strength indicator that makes installations really easy and hassle free.

Mobility

The Multipoint 820 Series, with the help of Proxim's roaming technology - FastConnect, is able to establish unparalleled handoff times and support delay-sensitive multimedia applications even when mobile at speeds of up to 285 km/h (196 mph).

Built for Extremes

The 820 aluminum enclosures is approved after stringent screening involving Drop, Shock, Salt Spray, Thermal, and Reliability tests. In addition, the enclosures is IP 67 rated that ensures the 820 delivers high performance even in hostile weather conditions with minimal downtime.

Powered by WORP®

At the core of every Tsunami[®] 820 lies Proxim's proprietary Wireless Outdoor Routing Protocol - WORP[®], which is a reliable, secure and efficient protocol that optimizes the performance of multi-play outdoor wireless Point-to-Point and Point-to-Multipoint links.

Compatibility

Connects to all Tsunami® MP-10200, MP-10100, MP-8200, MP-820 and MP-830 product families.

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		
MP-820-BSU-100	Tsunami® MP 820 Base Station U	ait 100 Mbps MIMO 2v2 I			0135 MP-820-BSU-100-US		
MP-825-BS3-100	Tsunami® MP 825 Base Station U	901-0 901-0	0133 MP-820-BSU-100-WD 0185 MP-825-BS3-100-US				
MP-820-SUA-50+	Tsunami® MP 820 Subscriber Uni N-Type Connectors	00184 MP-825-BS3-100-WD 00136 MP-820-SUA-50⁺-US 00134 MP-820-SUA-50⁺-WD					
MP-820-SUA-100	Tsunami® MP 820 Subscriber Uni		0174 MP-820-SUA-100-US 0173 MP-820-SUA-100-WD				
MP-825-SUR-50⁺	Tsunami® MP 825 Subscriber Uni 15 dBi Antenna	901-0	0176 MP-825-SUR-50 ⁺ -US 0175 MP-825-SUR-50 ⁺ -WD				
MP-825-SUR-100	Tsunami® MP 825 Subscriber Uni		0195 MP-825-SUR-100-US 0212 MP-825-SUR-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 MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER CONTROL	2x2:2 OFDM with BPSK, QPSK, QAM16, QAM64 4.900 - 5.925 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz*, 5 MHz* channel bandwidths * DFS availability is country dependent, check the User Guide 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) Up to 26 dBm (dual chain) 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	MCS 0	-88 dBm	-92 dBm	-93 dBm	-94 dBm		
(PER=10%)	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							
MP-820-BSU-100/SUA-50 ⁺ / SUA-100	Two N-type connectors						
MP-825-BS3-100/SUR-50 ⁺ / SUR-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 REMOTE SNMP OTHER	RS-232 serial (RJ11 to DB-9 dongle provided) Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow ^{**} agent, SNTP and local time, Spectrum analyzer						
SYNCHRONIZATION							
	Synchronize internal clock to Pulse Per Second signal recieved from either GPS module connected to RJ11 serial port or Ethernet Synchronization module connected to RJ45 ethernet port						
SECURITY							
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)						
QoS							
Asymmetric Bandwidth Control Packet Classification Capabilities	Uplink and Downlink CIR Control "committed information rate" per service flow Uplink and Downlink MIR Control "maximum information rate" per service flow 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP protocol, IP source/destination address, Ethernet source/destination address, source/destination port, and Ethertype						
Scheduling	Best Effort, Real Time Polling Serv						

NETWORK							
MODES IP STACK	Bridging, Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously						
THROUGHPUT	MP-820-BSU-100/SUA-100 MP-825-BS3-100/SUR-100		Up to 100 Mbps, 32 subscriber max				
	MP-820-SUA-50+ or MP-825-SUR-50+		Up to 50 Mbps (license upgradable to 100 Mbps)				
GATEWAY FEATURES VLAN	DHCP Server & relay, NAT with S 802.1Q: Management VLAN. Tra		, ,				
POWER SUPPPLY							
	Via provided PoE injector or dire	ctly from 12 VDC source throug	gh serial port				
POWER CONSUMPTION							
	6 Watt typical (15 Watt max)						
ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	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)			
MP-820-BSU-100/SUA-50+/ SUA-100	11.81x10.83x5.31 in (300x275x135 mm)	5.02x8.68x2.85 in (127.5x220.5x72.5 mm)	7.93 lbs (2.7 kg)	2.75 lbs (1.250 kg)			
MP-825-BS3-100/SUR-50+/ SUR-100	11.81x10.83x5.31 in (300x275x135 mm)	4.96x8.62x2.58 in (126x219x65.5 mm)	7.27 lbs (3.3 Kg)	2.10 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							
	 One Tsunami® MP-820-BSU-100 with two N-type surge protected connectors Or One Tsunami® MP-825-BS3-100 with 15 dBi integrated antenna Or One Tsunami® MP-820-SUA-50'/SUA-100 with two N-type surge protected connectors Or One Tsunami® MP-825-SUR-50'/SUR-100 with 15 dBi integrated antenna One 32 W power injector with country specific power cord One Wall / Pole mounting kit (Tsunami MP-825-BS3/SUR) Or One Pole mounting Kit (Tsunami MP-820-BSU/SUA) One Connector weatherproofing kit (Includes all recommended weatherproofing material) One Serial (RJ-11 to DB9) dongle One Quick Installation Guide 						
MTBF & WARRANTY							
	MTBF over 350,000 hours & 2-year warranty with ServPak Extended Support available						

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