Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range broadband wireless solutions. Leveraging the advantages of OFDM, MIMO radio innovations along with Proxim’s proprietary Wireless Outdoor Routing Protocol (WORP®), the Tsunami® Multipoint 820 series is a feature rich evolving equipment specifically designed to address video protection market.

The compact and robust form factor of Tsunami® Multipoint 820 series is an ideal solution for urban wireless deployments. It is suitable for pole mounting, next to video camera, in order to ensure citizen protection.

Tsunami® Multipoint 820 series is also adapted for in vehicle mounting and supports seamless roaming at very high speed.

**World Class Performance**

- Features a very small form factor and an outdoor rated IP67 Metal enclosure
- Available with 15 dBi integrated antenna or N-Type connectors
- 50Mbps (license upgradable to 100Mbps) or 100 Mbps of throughput, with maximum data rates of 300Mbps
- Provides flexible channel planning with support for 5.150 to 5.925 GHz
- Comes with a 2x2 MIMO high power radio capable of 26 dBm transmit power
- Dynamic bandwidth allocation for service tiers
- Seamless roaming up to 285 km/h (196 mph)
- Powered via 802.3at PoE or directly from 12 VDC source for in-vehicle installation

**Reducing Costs for Wireless ISPs**

- License-free frequency bands worldwide provide reliable wireless broadband without the high cost of licensed frequencies
- Low-cost bundle including both radio and mounting kit provides the industry’s most aggressive price point, enabling any deployment to enjoy a quick return on investment

**Easy to Install**

- Comes as a complete compact outdoor form factor offering unprecedented ease of installation
- Deployment tools include spectrum analyzer, antenna alignment and remote management configuration
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas
- Collocated Base Station synchronization ready (enabled via software upgrade in Q2-14)
- Connects to all existing Tsunami® MP11, Tsunami® 8100 and Tsunami® 8200

**Video Ready and Highly Secure**

- Service flow based Quality of Service with advanced packet recognition (layer 2, 3 or 4)
- Multi-cast traffic compliant (no performance reduction) and built in IGMP snooping
- Advanced encryption protects over-the-air transmission via AES-128
- Radio mutual authentication eliminates unauthorized use of the system by rogue subscriber units and man-in-the middle attacks
- MAC, Ether type, IP address packet filtering provides granular network security
- Uses Proxim’s Wireless Outdoor Routing Protocol (WORP) to prevent eavesdropping
- Features highly-secure remote management via SSL, SSH and SNMPv3

Presenting Proxim’s next generation video protection wireless solution

Tsunami® Multipoint 820 series is also adapted for in vehicle mounting and supports seamless roaming at very high speed.
**PROTOCOLS**

- **MP-825-BS100**
  - Tsunami® MP 825 Base Station Unit, 100 Mbps, MIMO 2x2, N-Type Connectors
- **MP-825-SUA100**
  - Tsunami® MP 825 Subscriber Unit, 50 Mbps (upgradeable to 100 Mbps), MIMO 2x2, N-Type Connectors
- **MP-825-SUR50**
  - Tsunami® MP 825 Subscriber Unit, 50 Mbps (upgradeable to 100 Mbps), MIMO 2x2, 15 dB Antenna
- **MP-825-SUR100**
  - Tsunami® MP 825 Subscriber Unit, 100 Mbps, MIMO 2x2, N-Type Connectors

**Wi-Fi**

- **MP-825-BS3-100**
  - Tsunami® MP 825 Base Station Unit, 100 Mbps, MIMO 2x2, 15 dB Antenna
- **MP-825-BS3-100/SUR-50**
  - Tsunami® MP 825 Base Station Unit, 100 Mbps, MIMO 2x2, 15 dB Antenna
- **MP-825-BS3-100/SUR-100**
  - Tsunami® MP 825 Base Station Unit, 100 Mbps, MIMO 2x2, 15 dB Antenna

**SCHEDULING**

- **Packet Classification Capabilities**
  - MCS 0: 88 dBm
  - MCS 7: 72 dBm
  - MCS 8: 88 dBm
  - MCS 15: 69 dBm

**RF SPECIFICATIONS**

- **Channel Size**
  - 40 MHz, 20 MHz, 10 MHz*, 5 MHz* channel bandwidths
  - *Not applicable for DFS Band

**DATA RATE**

- **MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection.**

**FREQUENCY**

- **5.150 – 5.925 GHz** (Subject to Country Regulations)

**MODULATION**

- **OFDM with BPSK, QPSK, QAM16, QAM64**

**TX POWER CONTROL**

- **Up to 26 dBm (dual chain)**

**OPERATING TEMPERATURE**

- **-40º to 55ºC (-40º to 131º Fahrenheit)**

**ENVIROMENTAL SPECS**

- **Power Consumption**
  - Via provided PoE injector
  - 6 Watt typical (15 Watt max)

**PACKAGING**

- **Weight (Packaged)**
  - 2.75 lbs (1.250 kg)

**POWER SUPPLY**

- **Weight (Unpackaged)**
  - 2.30 lbs (0.950 kg)

**SAMSUNG**

- **Weight (Packaged)**
  - 2.30 lbs (0.950 kg)

**-one Tsunami® MP-825-BSU-100 with two N-type surge protected connectors Or**

**-one Tsunami® MP-825-SUA100 with 15 dB integrated antenna Or**

**-one Tsunami® MP-825-SUR50 with two N-type surge protected connectors Or**

**-one Tsunami® MP-825-SUR100 with 15 dB integrated antenna**

**-350,000 hours & 1-year on parts and labor; ServPak Extended Support available**