Presenting Proxim’s next generation video protection wireless solution

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 4.900 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

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

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® MP.11, Tsunami® 8100 and Tsunami® 8200

Proxim Wireless is a global pioneer of broadband wireless systems that deliver the quadruple play of video, voice, data and mobility. Regardless of the application, our end-to-end product portfolio enables partners to custom-build the wireless solution that fits customer’s specific needs. Our point-to-point wireless backhaul products are available through our extensive global channel networks.
### Technical Specifications

#### PRODUCT MODELS

- **Tsunami® MP 820 Base Station Unit**, 100 Mbps, MIMO 2x2, N-Type Connectors
- **Tsunami® MP 825 Base Station Unit**, 100 Mbps, MIMO 2x2, 15 dB Antenna
- **Tsunami® MP 820 Subscriber Unit**, 50 Mbps (upgradeable to 100 Mbps), MIMO 2x2, N-Type Connectors
- **Tsunami® MP 825 Subscriber Unit**, 100 Mbps, MIMO 2x2, N-Type Connectors
- **Tsunami® MP 825 Subscriber Unit**, 50 Mbps (upgradeable to 100 Mbps), MIMO 2x2, 15 dB Antenna
- **Tsunami® MP 825 Subscriber Unit**, 100 Mbps, MIMO 2x2, 15 dB Antenna

#### INTERFACE

- **WEXT/Ethernet**: One auto MDIX-R45 10/100/1000Mbps Ethernet with PoE in
- **WIRELESS PROTOCOL**: WORP® (Wireless Outdoor Router Protocol)
- **RFI & TX SPECTRUM**: RFM with BPSK, QPSK, QAM16, QAM64
- **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

#### POWER SUPPLY

- 6 Watt Typical (15 Watt max)

#### TEMPERATURE

- -40° to 55°F (-40° to 131°F Fahrenheit)
- -55° to 70°C (-67° to 158°F Fahrenheit)

#### HUMIDITY

- Max 100% relative humidity (non-condensing)

#### WIND LOADING

- 180 km/h (112 mph)

### APPLICATIONS

- **Wireless Broadband/ISP**: High service availability, superior subscriber per sector support and ultrafast 4G connectivity help ISPs to quickly scale their network coverage as well as meet the rising demand for high-bandwidth, multimedia services effortlessly.
- **Last Mile Access**: Competitive broadband service access alternative to DSL or cable for residences and T1 or Ethernet for businesses.
- **Security and Surveillance**: High definition IP-surveillance cameras for monitoring city streets, airports, bridges, seaports, transportation hubs, offices and warehouses.
- **Metropolitan Area Networks**: Secure and reliable connectivity between city buildings.
- **Emergency First Responders**: Critical information delivery such as medical data and video feeds during in-progress events.
- **Enterprise Campus Connectivity**: Extend the main network to remote offices, warehouses or other buildings without building leased lines.


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