Tsunami® Multipoint 8200-BSU-G

Wireless Point-to-Multipoint Systems Delivering 300Mbps Data Rate

Simplifying dense network deployment with multiple Base Station synchronization

With the increase of wireless network using the 5 GHz band, finding interference free channel is becoming a challenge. To simplify channel planning task, Proxim wireless introduces Tsunami® MP-8200-BSU-G which adds multiple Base Station synchronization to the versatile and high performance Tsunami® 8200 series.

Tsunami® MP-8200-BSU-G includes the capability to synchronize its internal clock to the one pulse per second signal of an external GPS receiver or an Ethernet based synchronization module. When loaded with Proxim's optional WORP® Sync software, multiple MP-8200-BSU-G start following the same transmit/receive pattern and avoid interfering with each other even when using adjacent channels. Tsunami® MP-8200-BSU-G synchronization mechanism added to MIMO 3x3 nLOS functionality, advanced channel management capability and cutting edge QoS class of service ensures optimal delivery of voice, video and data applications.

With supreme throughput, high power radio, flexible channel features and dual Gigabit Ethernet ports with PoE out, for powering additional devices, Tsunami® MP-8200 series is an ideal solution for service providers and government organizations with requirements of all kinds, from last mile broadband wireless access (BWA) to wireless video surveillance and more.

World Class Performance

- Point to Multipoint solution that can deliver 300 Mbps data rates
- High power radio capable of up to 25.8 dBm Tx power to extend the range and coverage
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks

Optimal RF Management

- Multiple Base Station synchronization based on PPS signal from GPS of Ethernet based Synchronization Module
- Non-line-of-sight capable, utilizing OFDM and 3x3 MIMO techniques to improve link performance and penetrate through or around obstructions better

Enhanced Feature set

- Spectrum analysis feature helps to study frequency bands for interference, and select a relatively low interference channel
- Operates in licensed and unlicensed frequency bands from 4.900 to 5.925 GHz with support for 5, 10, 20 and 40MHz channel size

Carrier-Grade Security

- Implements tiered security layers for the most secure outdoor wireless communications in the unlicensed frequency spectrum
- Utilizes Proxim’s Wireless Outdoor Routing Protocol, which prevents snooping, and features highly-secure remote management via SSL, SSH and SNMPv3
- Provides military-grade security with AES encryption technology, prevents unsecure client-to-client communications and leverages MAC, Ethertype and IP address packet filtering for granular network security

Product Line Compatibility

- Connects to all existing Tsunami® MP-820, MP-8200, MP-8100 and Tsunami® MP11
Specifications: Tsunami® Multipoint 8200-BSU-G

**RADIO & TX SPECS**

- **Power Consumption**: 12 Watt typical (22 Watt max)
- **Physical Specifications**
  - **Dimensions (Packaged)**: MP-8200-BSU-G: 14.56 x 13.69 x 8.18 in. (370 x 348 x 208 mm), MP-8250-BS1-G or BS9-G: 14.17 x 11.14 x 3.38 in. (350 x 283 x 86 mm)
  - **Dimensions (Unpackaged)**: MP-8200-BSU-G: 15.94 x 13.94 x 9.21 in. (405 x 340 x 234 mm), MP-8250-BS1-G or BS9-G: 14.17 x 11.14 x 3.38 in. (350 x 283 x 86 mm)
  - **Weight (Packaged)**: MP-8200-BSU-G: 15 lbs (6.8 kg), MP-8250-BS1-G or BS9-G: 16.31 lbs (7.4 kg)
  - **Weight (Unpackaged)**: MP-8200-BSU-G: 7 lbs (3.2 kg), MP-8250-BS1-G or BS9-G: 9.0 lbs (4.1 kg)

**Scheduling**

- **Asymmetric Bandwidth Control**: UL and DL CIR Control "committed information rate" per service flow
- **Packet Classification Capabilities**: 802.1Q/802.1p priority, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype
- **QoS**: Best Effort, Real Time Poling Services

**ENVIROMENTAL SPECS**

- **Operating Temperature**: -40º to 60ºC (-40º to 140º Fahrenheit) Will continue operating if temperature temporarily varies between -50º and 70º C (58º and 158º Fahrenheit)
- **Humidity, IP Rating, Wind Loading**: 100% relative humidity, IP67, 200 km/h (125 mph)

**POWER CONSUMPTION**

- **Operating Temperature**: -40º to 60ºC (-40º to 140º Fahrenheit) Will continue operating if temperature temporarily varies between -50º and 70º C (58º and 158º Fahrenheit)

**PACKAGE CONTENTS**

- One Tsunami® MP-8250-BS1-G or BS9-G with integrated dual polarized antenna
- One Gigabit PoE Surge Arrester
- One power injector and country specific power cord
- One Wall / Pole mounting kit
- One Connector weatherproofing kit (includes all recommended weatherproofing material)
- One Serial (RJ-11 to DB9) dongle
- One Antenna alignment (RJ11) dongle
- One Grounding kit
- One Quick Installation Guide

**MTBF & WARRANTY**

>250,000 hours & 1-year on parts and labor; ServPak Extended Support available.