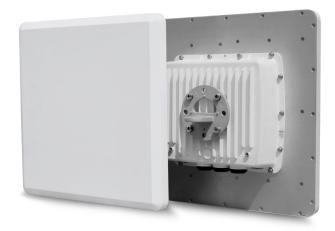


Tsunami® MP-10250-BSX

Advanced Point-to-Multipoint Wireless Base Station



Implementing Intelligent Technologies with Tsunami® MP-10250-BSX

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range and mobile broadband wireless solutions.

The Tsunami® MP-10250-BSX is an intelligent base station that combines a beam steering (BeamX™) antenna and a scan radio (Proxim SmartScan™) with the very high throughput, high power, robust and especially reliable Tsunami® 10000 product line. This product delivers a solution that is extremely robust in the face of interference, delivers more Mbps at a given point in the network and opens up additional 5GHz spectrum.

The Tsunami® MP-10250-BSX supports the following features specifically for last miles access or video surveillance application that need advanced QoS, interference resistant, broadband wireless access:



Proxim WORP®, a highly evolved QoS platform tailored to deliver voice, video and data applications



Proxim ClearConnect™, a suite of different techniques all working together to ensure robust and reliable radio communications in noisy deployments



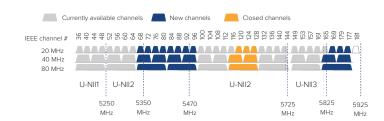
Proxim SmartConnect™, next generation improvements that anticipates disturbances to optimize performances

World Class Performance

- Point-to-Multipoint base station that delivers up to 866 Mbps data rate and covers distances up to 10 miles (16 km)
- AES 128 encryption, Radius authentication and highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3
- Service flow based QoS with deep packet inspection (DPI) to ensure that the most important data arrives with priority
- Built-in feature rich network protocols for IPv4 and IPv6 bridging, routing and gateway functionality

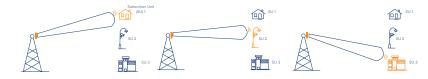
Proxim SmartScan™

- Performs background analysis of the full RF spectrum and creates channel availability tables to allow an immediate switch to a free channel in case of weather radar detection or heavy interference
- By removing the initial transmission delay, SmartScan makes DFS channel more efficient.
- It also opens access to the 5.600-5.650 GHz sub-band, and enables effective use of up to 355 MHz of DFS spectrum.



BeamX[™] Antenna

- Smart antenna delivering a 17° beam that electronically steers itself to the remote subscriber unit over 60° sector, to limit interferences from nearby RF sources
- By improving the radio Signal to Noise Ratio (SNR), BeamX enables higher modulations and thus improves throughput.



Product Line Compatibility

- Connects to all existing Tsunami® MP10100, MP-10100L, MP-8200, MP-820 and MP-830 products
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

Specifications: Tsunami® MP-10250-BSX PRODUCT MODELS PART NUMBERS MP-10250-BSX 901-00291 MP-10250-BSX-US 901-00292 MP-10250-BSX-WD Tsunami® MP 10250 Base Station Unit, 867 Mbps, MIMO 2x2, 16 dBi BeamX antenna, scan radio WIRED ETHERNET Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data) WIRELESS PROTOCOL WORP® (Wireless Outdoor Router Protocol) **RADIO & TX SPECS** MIMO 2x2:2 and 0x2:2 (scan radio) MODULATION OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 4.900 – 5.850 GHz (Subject to Country Regulations) **FREQUENCY** CHANNEL SIZE 80 MHz, 40 MHz and 20 MHz DATA RATE MCS 0 to 9 with Dynamic Data Rate Selection TX POWER Up to 28 dBm (dual chain) TX POWER CONTROL 0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit 80 MHz 40 MHz 20 MHz Scan Radio MCS0: 28 MCS0: 28 MCS0: 29 TX POWER N/A MCS9: 21 MCS9: 22 MCS8: 25 RX SENSITIVITY (Per=10%) MCS0: -89 MCS0: -93 MCS0: -94 N/A MCS9: -68 MCS9: -71 MCS8: -74 THROUGHPUT Up to 672 Mbps Up to 324 Mbps Up to 137 Mbps N/A 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-10250-BSX Integrated 2x2 MIMO Beam Steering antenna: 17° spanning over ± 30° sector Beam Width Receive Gain 16 dBi (11 dBi before 5.150 GHz) Transmit Gain 20 dBi (11 dBi before 5.150 GHz) MANAGEMENT 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** Pass-through IEEE 1588v2 Ethernet Synchronization SECURITY **ENCRYPTION** ΔFS 128 AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning) Asymmetric Bandwidth Control Asymmetric UL/DL committed and maximum information rate per service flow Packet Classification Capabilities 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType Best Effort, Real Time Polling Services Scheduling **NETWORK** MODES Bridging, Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously IP STACK **GATEWAY FEATURES** DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging VLAN POWER INPUT 36 to 57 VDC via Ethernet port1 (Power over Ethernet) 48 to 57 VDC - 25 Watt on Ethernet port2 (PoE - software controlled) 12 VDC via Access port 12 VDC on Access port Power should not be provided simultaneously on both ports POWER CONSUMPTION

17 Watt typical

ENVIRONMENTAL SPECS

OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY, IP RATING WIND LOADING -40° to 60°C (-40° to 140° Fahrenheit) -50° to 70°C (-58° to 158° Fahrenheit) 100% relative humidity - IP67 200 km/h (125 mph)

PHYSICAL SPECS

WEIGHT (UNPACKAGED) PRODUCT MODELS DIMENSIONS PACKAGED (per unit) DIMENSIONS UNPACKAGED (per unit) WEIGHT (PACKAGED) MP-10250-BSX 18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm) 14 x 14 x 3.40 in (371 x 371 x 85 mm) 13.67 lbs (6.2 kg) 7.27 lbs (3.3 kg)

SAFETY STANDARDS

UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)

CERTIFICATIONS

USA: FCC 90Y + 15E (UNII 15.247), Canada: IC RSS 102 + RSS 111 + RSS 247, Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502

PACKAGE CONTENTS

• One Tsunami® MP-10250-BSX with integrated BeamX antenna and scan radio

One power injector and country specific power cord

One Connector weatherproofing kit (Includes all recommended weatherproofing material) One Wall / Pole mounting kit

One Antenna alignment (RJ11) dongle One Grounding kit

One Quick Installation Guide

MTBF & WARRANTY