



## 简化分布式室外WiFi热点

Proxim的Crosspoint 10100设计为单端点解决方案，可提供高性能室外WiFi。通过将近视线点对多点SU与ORiNOCO®接入点集成到一个单元中，可以快速可靠地部署室外热点。Crosspoint 10100专为无线互联网服务提供商而设计，但同样适用于校园范围的连接。

## 世界级性能

- 点对多点系统，可提供高达866 Mbps的数据速率，覆盖距离可达10英里（16 km）
- 的接入点802.11b/g/n，可提供数据速率达300 Mbps
- IPv4和IPv6双协议栈，演变到未来网络
- 具有监控，简化或高级Web界面的三级登录
- 内置功能丰富的网络协议，用于桥接，路由和网关功能
- 铁路认证的高速移动速度高达185 mph（295 km/h）

## 近视距和高级功能

- 具有双千兆以太网端口，PoE输出可为其他设备，如监控摄像头或其他无线电设备供电
- 执行深度数据包检查（DPI）以创建独特和复杂的服务规则，轻松分层服务级别
- BSU冗余（500毫秒切换时间）和动态信道选择，无论什么条件都能确保服务的连续性
- 频谱分析仪用于分析干扰频段，并选择最佳可用频道
- 具有VLAN分配的多SSID，以及以太网端口接入和中继模式

## 运营商级解决方案

- 为未许可的频谱中最安全的室外无线通信实施AES加密和远程认证拨入用户服务身份验证
- 利用Proxim的无线室外路由协议（WORP®）来防止窥探，并通过SSL/TLS1.2，SSH和SNMPv3实现高度安全的远程管理
- 具有以太网端口，具有直通IEEE 1588v2同步功能，支持9k巨型帧。
- 公共热点与主页重定向和防火墙防御区一体化
- HotSpot 2.0可自动搜索，并无缝地向公共Wi-Fi网络进行身份验证

## 实现技术

### Proxim WORP®

-结合网络访问控制、数据调度排队、高级QoS和加密，以确保高效和安全的数据传输。

### Proxim ClearConnect™

一套确保在高密度无线部署中进行稳定和可靠通信的干扰缓解技术

### Proxim FastConnect™

移动技术在固定基站和移动车辆之间提供快速切换，以确保不间断的宽带接入，支持速度达到295公里/小时（185英里/小时）

## 强大且可靠

MP-10100专为恶劣环境而设计，完全符合IP67防护等级，可在大风，高盐 and 高温极端条件下提供多年可靠的服务。

## 关于Proxim Wireless

Proxim Wireless是全球先进的Wi-Fi、点对点、点对多点户外无线系统的先驱和领头羊，该系统用于建立至关重要任务和高度可用性通信。

Proxim公司拥有超过30年的无线电方面的经验，以其无与伦比的可靠性，卓越的性能和创新动力而闻名。

## 产品系列的兼容性

- 连接所有现有的MP-10200，MP-10100，MP-8200，MP-820和MP-830产品
- 完美集成在ProximVision®高级云端运营商管理系统和控制器中

## 多语言支持

Web界面提供英语，法语，西班牙语和中文

## 规格

| PRODUCT MODELS                     |  |           |           | PART NUMBERS   |                    |                   |               |
|------------------------------------|--|-----------|-----------|--|--------------------|-------------------|---------------|
| XP-10150-BS1                       | Tsunami® XP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP   |           |           | 901-00282 XP-10150-BS1-US  |                    |                   |               |
| XP-10100-SUA                       | Tsunami® XP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors with 11n AP   |           |           | 901-00284 XP-10150-BS1-WD  |                    |                   |               |
| XP-10150-SUR                       | Tsunami® XP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP  |           |           | 901-00236 XP-10100-SUA-US  |                    |                   |               |
|                                    |  |           |           | 901-00237 XP-10100-SUA-WD  |                    |                   |               |
|                                    |  |           |           | 901-00283 XP-10150-SUR-US  |                    |                   |               |
|                                    |  |           |           | 901-00285 XP-10150-SUR-WD  |                    |                   |               |
| INTERFACES                         |  |           |           |  |                    |                   |               |
| 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                  | - Radio #1: WORP® (Wireless Outdoor Router Protocol), - Radio #2: Wi-Fi (802.11b/g/n)  |           |           |  |                    |                   |               |
| RADIO & TX SPECS                   |  |           |           |  |                    |                   |               |
|                                    | Radio #1   |           |           | Radio #2   |                    |                   |               |
| FREQUENCY                          | 4.900 – 5.925 GHz (Subject to Country Regulations)   |           |           | 2.400 – 2.484 (Subject to Country Regulations)                     |                    |                   |               |
|                                    |  |           |           | 802.11n  | 802.11g            | 802.11b           |               |
| MIMO                               | 2x2:2  |           |           | 2x2:2  | N/A                | N/A               |               |
| MODULATION                         | OFDM<br>BPSK - QAM256  |           |           | OFDM<br>BPSK - QAM64   | OFDM<br>BPSK-QAM64 | DSSS<br>DBPSK-CCK |               |
| DATA RATE                          | Up to 866 Mbps   |           |           | Up to 300 Mbps   |                    | Up to 54 Mbps     | Up to 11 Mbps |
|                                    | 80 MHz   | 40 MHz    | 20 MHz    | 40 MHz   | 20 MHz             | 20 MHz            | 20 MHz        |
| TX POWER (dual RF)                 | MCS0: 28   | MCS0: 28  | MCS0: 29  | MCS0/8: 26   | MCS0/8: 26         | 6 Mbps: 26        | 1 Mbps: 26    |
|                                    | MCS9: 21   | MCS9: 22  | MCS9: 25  | MCS7/15: 20  | MCS7/15: 21        | 54 Mbps: 22       | 11 Mbps: 26   |
| RX SENSITIVITY (Per=10%)           | MCS0: -89  | MCS0: -93 | MCS0: -94 | MCS0/8: -88/90   | MCS0/8: -92/91     | 6 Mbps: -93       | 1 Mbps: -93   |
|                                    | MCS9: -68  | MCS9: -71 | MCS8: -74 | MCS7/15: -72/69  | MCS7/15: -74/72    | 54 Mbps: -77      | 11 Mbps: -89  |
| OTHER                              | Dynamic Channel Selection (DCS) based on interference detection<br>Dynamic Frequency Selection (DFS) based on radar signature<br>Automatic Transmit Power Control (ATPC) with EIRP limit support |           |           | Automatic Channel Selection (ACS)                                  |                    |                   |               |
| ANTENNA                            |  |           |           |  |                    |                   |               |
|                                    | Radio #1   |           |           | Radio #2   |                    |                   |               |
| XP-10100-SUA                       | Two N-type Connectors with built-in Surge Protection   |           |           | Two N-type Connectors with built-in Surge Protection               |                    |                   |               |
| XP-10150-BS1/SUR                   | Integrated 2x2 MIMO 22 dBi Dual Polarized 1 foot Antenna   |           |           | Two N-type Connectors with built-in Surge Protection               |                    |                   |               |
| SECURITY                           |  |           |           |  |                    |                   |               |
|                                    | Radio #1   |           |           | Radio #2   |                    |                   |               |
| ENCRYPTION                         | AES 128  |           |           | 802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP   |                    |                   |               |
| AUTHENTICATION                     | Internal MAC Address Control List, Radius based Authentication   |           |           | Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open          |                    |                   |               |
| 802.1X SUPPORT                     |  |           |           | PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA                   |                    |                   |               |
| QoS                                |  |           |           |  |                    |                   |               |
|                                    | Radio #1   |           |           | Radio #2   |                    |                   |               |
|                                    | Asymmetric UL/DL committed and maximum information rate per service flow with Best Effort and Real Time Polling Services   |           |           | 802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues |                    |                   |               |
| Packet Classification Capabilities | 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType   |           |           | 802.1p priority, IPTOS   |                    |                   |               |
| THROUGHPUT                         |  |           |           |  |                    |                   |               |
|                                    | Radio #1 (RFC 2544)  |           |           | Radio #2   |                    |                   |               |
|                                    | Up to 672 Mbps @ 80 MHz  |           |           | Up to 150 Mbps   |                    |                   |               |
| 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   |           |           |  |                    |                   |               |
| Multi-Language Support             | Web Interface available in Chinese, English, French and Spanish  |           |           |  |                    |                   |               |

| SYNCHRONIZATION   |   |  |  |                     |
|---|---|--|--|---------------------|
| Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization   |   |  |  |                     |
| NETWORK   |   |  |  |                     |
| MODES   | <b>Radio #1</b>   |  | <b>Radio #2</b>  |                     |
|   | Bridging, Routing (RIP v2 and IP tunneling)   |  | Access Point   |                     |
| IP STACK  | IPv4 and IPv6 simultaneously  |  |  |                     |
| GATEWAY FEATURES  | DHCP Server & relay, NAT with Std ALGs  |  |  |                     |
| VLAN  | 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging |  |  |                     |
| POWER   | INPUT   |  | OUTPUT   |                     |
|   | 36 to 57 VDC via Ethernet port1 (Power over Ethernet)                                   |  | 48 to 57 VDC – 25 Watt max 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   |   |  |  |                     |
| 16.5 Watt typical, 22.5 Watt maximum  |   |  |  |                     |
| ENVIRONMENTAL SPECS   | OPERATING TEMPERATURE   | STORAGE TEMPERATURE                          | HUMIDITY - IP RATING   | WIND LOADING        |
|   | -40° to 60°C<br>(-40° to 140° Fahrenheit)   | -50° to 70°C<br>(-58° to 158° Fahrenheit)    | 100% relative humidity - IP67  | 200 km/h (125 mph)  |
| PHYSICAL SPECS  | DIMENSIONS PACKAGED   | DIMENSIONS UNPACKAGED                        | WEIGHT (PACKAGED)  | WEIGHT (UNPACKAGED) |
| XP-10100-SUA  | 14.56 x 13.0 x 7.87 in<br>(370 x 331 x 200 mm)  | 9.84 x 8.66 x 2.83 in<br>(250 x 220 x 72 mm) | 10.91 lbs (4.95 kg)  | 5.07 lbs (2.3 kg)   |
| XP-10150-BS1/SUR  | 14.56 x 13.0 x 7.87 in<br>(370 x 331 x 200 mm)  | 12 x 12 x 3.40 in<br>(305 x 305 x 85 mm)     | 11.90 lbs (5.4 kg)   | 6.17 lbs (2.8 kg)   |
| SAFETY STANDARDS  |   |  |  |                     |
| UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)  |   |  |  |                     |
| CERTIFICATIONS  |   |  |  |                     |
| USA: FCC 90Y + 15C + 15E (UNII 15.247)<br>Canada: IC RSS 102 + RSS 111 + RSS 247<br>Europe: RED EN 301 489-1 + EN 301-489-17 + EN 300 328 + EN 301 893 + EN 302 502<br>Railway: EN 50155 + EN 50121 + EN 61373  |   |  |  |                     |
| PACKAGE CONTENTS  |   |  |  |                     |
| <ul style="list-style-type: none"> <li>One Tsunami® XP-10100-SUA unit with four N-type surge protected connectors<br/>Or One Tsunami® XP-10150-BS1/SUR unit with integrated 22 dBi panel antenna plus two N-type surge protected connectors</li> <li>One power injector and country specific power cord</li> <li>One Connector weatherproofing kit (Includes all recommended weatherproofing material)</li> <li>One Wall / Pole mounting kit</li> <li>One Grounding kit</li> <li>Two 2.4 GHz, 5 dBi omni antennas</li> <li>One Antenna alignment (RJ11) dongle</li> <li>One Quick Installation Guide</li> </ul> |   |  |  |                     |
| MTBF & WARRANTY   |   |  |  |                     |
| >250 000 hours, 2-year warranty; ServPak Extended Support available.  |   |  |  |                     |