



起始数据处理量为320Mbps，现场可升级至630Mbps

Multipoint 10100L产品系列是集高处理量、可靠、经济高效和近距离点对多点为一体的一系列无线产品。Multipoint 10100L系列可以降低进入高带宽点对多点网络的成本。能够升级产品以支持80 Mhz通道，处理量实现630Mbps

世界级性能

- 点对多点系统，可提供高达400 Mbps的数据速率，覆盖距离可达10英里（16 km）
- IPv4和IPv6双协议栈，在未察觉的情况下演变成未来的网络
- 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

运营商级回程

- 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。

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

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

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Controllereliver 630Mbps中。

多语言支持

Web界面提供英语，法语，西班牙语和中文

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。

规格

| PRODUCT MODELS | | PART NUMBERS |
|------------------------------|--|--|
| MP-10100L-BSU | Tsunami® MP 10100 Base Station Lite, 400 Mbps, MIMO 2x2, Type-N Connectors | 901-00272 MP-10100L-BSU-US 901-00277 MP-10100L-BSU-WD |
| MP-10150L-BS9 | Tsunami® MP 10150 Base Station Lite, 400 Mbps, MIMO 2x2, 90° sector antenna | 901-00274 MP-10150L-BS9-US 901-00279 MP-10150L-BS9-WD |
| MP-10150L-BS1 | Tsunami® MP 10150 Base Station Lite, 400 Mbps, MIMO 2x2, 22 dBi panel antenna | 901-00275 MP-10150L-BS1-US 901-00280 MP-10150L-BS1-WD |
| MP-10100L-SUA | Tsunami® MP 10100 Subscriber Unit Lite, 400 Mbps, MIMO 2x2, Type-N Connectors | 901-00273 MP-10100L-SUA-US 901-00278 MP-10100L-SUA-WD |
| MP-10150L-SUR | Tsunami® MP 10150 Subscriber Unit Lite, 400 Mbps, MIMO 2x2, 22 dBi panel antenna | 901-00276 MP-10150L-SUR-US 901-00281 MP-10150L-SUR-WD |
| MP-10100L-BSx-866-UPG | Tsunami® MP 10100 Base Station Lite, 400 Mbps to 866 Mbps license upgrade | 997-00032 MP-10100L-BSx-866-UPG |
| MP-10100L-SUx-866-UPG | Tsunami® MP 10100 Subscriber Unit Lite, 400 Mbps to 866 Mbps license upgrade | 997-00033 MP-10100L-SUx-866-UPG |
| 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 | WORP® (Wireless Outdoor Router Protocol) | |
| RADIO & TX SPECS | | |
| MIMO | 2x2:2 | |
| MODULATION | OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 | |
| FREQUENCY | 4.900 – 5.925 GHz (Subject to Country Regulations) | |
| CHANNEL SIZE | 40 MHz and 20 MHz (±5ppm channel accuracy) | |
| 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 | |
| | 40 MHz | 20 MHz |
| TX POWER (dual RF) | MCS0: 28 MCS9: 22 | MCS0: 29 MCS8: 25 |
| RX SENSITIVITY (Per=10%) | MCS0: -93 MCS9: -71 | MCS0: -94 MCS8: -74 |
| THROUGHPUT (RFC 2544) | Up to 324 Mbps | Up to 137 Mbps |
| 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-10100L-BSU/SUA | Two N-type Connectors with built-in Surge Protection | |
| MP-10150L-BS9 | Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna | |
| MP-10150L-BS1/SUR | Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna | |
| MANAGEMENT | | |
| REMOTE | Telnet and SSH, Web GUI and SSL/TLS, 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 | |
| SECURITY | | |
| ENCRYPTION | AES 128 | |
| AUTHENTICATION | Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning) | |
| QoS | | |
| Asymmetric Bandwidth Control | Asymmetric UL/DL committed and maximum information rate per service flow | |
| Packet Classification | 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType | |
| Capabilities | | |
| Scheduling | Best Effort, Real Time Polling Services | |
| NETWORK | | |
| MODES | Bridging, Routing (RIP v2 and IP tunneling) | |
| IP STACK | IPv4 and IPv6 simultaneously | |
| GATEWAY FEATURES | DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS | |
| 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) 12 VDC via Access port Power should not be provided simultaneously on both ports | | 48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port | |
| POWER CONSUMPTION | | | | |
| | 14 Watt typical, 17.5 Watt maximum | | | |
| 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 | DIMENSIONS PACKAGED | DIMENSIONS UNPACKAGED | WEIGHT (PACKAGED) | WEIGHT (UNPACKAGED) |
| MP-10100-BSU/SUA | 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm) | 9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm) | 9.92 lbs (4.5 kg) | 4.20 lbs (1.9 kg) |
| MP-10150-BS9 | 18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm) | 14.57 x 14.57 x 4.21 in (370 x 370 x 107 mm) | 13.67 lbs (6.2 kg) | 7.27 lbs (3.3 kg) |
| MP-10150-BS1/SUR | 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm) | 12 x 12 x 3.40 in (305 x 305 x 85 mm) | 10.91 lbs (4.95 kg) | 5.30 lbs (2.4 kg) |
| SAFETY STANDARDS | | | | |
| | IEC 62368-1:2016 & 60950-22:2016 UL 62368-1 2nd edition & 60950-22 2nd edition CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17 EN 62368-1:2014 + A11:2017 & 60950-22:2017 | | | |
| 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, Railway: EN 50155 + EN 50121 + EN 61373 | | | |
| PACKAGE CONTENTS | | | | |
| | <ul style="list-style-type: none"> One Tsunami® MP-10100L-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-10150L-BS9/BS1/SUR with integrated dual polarized antenna 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 | | | | |
| | MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available. | | | |