**Starts at 320Mbps Throughput, Field Upgradable to 630Mbps**

The Multipoint 10100L product family is a series of very high throughput, reliable and cost-effective, near-line-of-sight point-to-multipoint wireless products. The Multipoint 10100L series enables a lower cost of entry into a high bandwidth Point to Multipoint network. The ability to upgrade the products to support 80 Mhz channel and deliver 630Mbps.

**World Class Performance**

- Point-to-Multipoint system that delivers up to 400 Mbps data rate and covers distances up to 10 miles (16 km)
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow’s networks
- Triple level login with monitoring, simplified or advanced web interface
- Built-in feature rich network protocols for bridging, routing and gateway functionality
- Railway certified High Speed Mobility up to 185 mph (295 km/h)

**Near-Line-of-Sight and Advanced Features**

- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Performs deep packet inspection (DPI) to create unique and sophisticated service rules and tiered service classes with ease
- BSU redundancy (500 milliseconds switch over time) and Dynamic Channel Selection to ensure continuity of services whatever the condition
- Spectrum analyzer to analyze frequency bands for interference, and select the best available channel

**Carrier-Grade Backhaul**

- Implements AES encryption and Radius authentication for the most secure outdoor wireless communications in the unlicensed frequency spectrum
- Utilizes Proxim’s Wireless Outdoor Routing Protocol (WORP®), which prevents snooping, and features highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3
- Features Ethernet ports with pass-through IEEE 1588v2 synchronization and support for 9k Jumbo frame

**Key Technologies**

**Proxim WORP®**
Combines network access control, data scheduling, advanced QoS and encryption to ensure highly efficient and secure data transmission.

**Proxim ClearConnect™**
A suite of interference mitigation technologies ensuring robust and reliable communications in high-density wireless deployments.

**Proxim FastConnect™**
Mobility technology that delivers rapid hand-off between fixed base stations and moving vehicles to ensure uninterrupted broadband at speeds up to 295 km/h (185 mph).

**Rugged and Reliable**

Designed for harsh environments, the Multipoint 10100L is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature extremes.
## Multipoint 10100L Series

### Product Line Compatibility
- Connects to all existing MP-10200, MP-10100, MP-8200, MP-820 and MP-830 products
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

### Multi-Language Support
Web Interface available in English, French, Spanish and Chinese

### Specifications

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<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
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<tbody>
<tr>
<td>MP-10100L-BSU</td>
<td>901-00272 MP-10100L-BSU-US</td>
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<tr>
<td></td>
<td>901-00277 MP-10100L-BSU-WD</td>
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<tr>
<td>MP-10150L-BS9</td>
<td>901-00274 MP-10150L-BS9-US</td>
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<td>901-00281 MP-10150L-SUR-WD</td>
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<td>MP-10100L-BSx-866-UPG</td>
<td>997-00032 MP-10100L-BSx-866-UPG</td>
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<tr>
<td>MP-10100L-SUx-866-UPG</td>
<td>997-00033 MP-10100L-SUx-866-UPG</td>
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</tbody>
</table>

### Interfaces
- **Methods:** Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3, **SNMP v1/v2c/v3**, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB, Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer, **Web Interface available in English, French, Spanish and Chinese**.

### Technical Details

#### Wireless Protocol
- **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 Control:** Up to 28 dBm (dual chain)
- **TX Power (dual RF):**
  - 40 MHz: MCS0: 28, MCS9: 22
  - 20 MHz: MCS0: 29, MCS8: 25
- **RX Sensitivity (Per=10%):**
  - 40 MHz: MCS0: -93, MCS9: -71
  - 20 MHz: MCS0: -94, MCS8: -74
- **Throughput (RFC 2544):**
  - Up to 324 Mbps (40 MHz)
  - Up to 137 Mbps (20 MHz)

#### Management
- **Remote:**
  - Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3
  - **SNMP v1/v2c/v3,** RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB
  - Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer
  - Web Interface available in English, French, Spanish and Chinese
### SYNCHRONIZATION
- Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization

### SECURITY
#### ENCRYPTION AUTHENTICATION
- AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

#### QoS
- Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling
- Asymmetric UL/DL committed and maximum information rate per service flow
- 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType
- 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
- 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging

### POWER
#### INPUT
- 36 to 57 VDC via Ethernet port (Power over Ethernet)
- 12 VDC via Access port

#### OUTPUT
- 48 to 57 VDC – 25 Watt on Ethernet port 2 (PoE – software controlled)
- 12 VDC on Access port

### POWER CONSUMPTION
- 14 Watt typical, 17.5 Watt maximum

### ENVIRONMENTAL SPECS
- OPERATING TEMPERATURE: -40º to 60ºC (-40º to 140º Fahrenheit)
- STORAGE TEMPERATURE: -50º to 70ºC (-58º to 158º Fahrenheit)
- HUMIDITY - IP RATING: 100% relative humidity - IP67
- WIND LOADING: 200 km/h (125 Mph)

### PHYSICAL SPECS
#### DIMENSIONS PACKAGED
- MP-10100-BSU/SUA: 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)
- MP-10150-BS9: 18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)
- MP-10150-BS1/SUR: 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)

#### WEIGHT (PACKAGED)
- MP-10100-BSU/SUA: 9.92 lbs (4.5 kg)
- MP-10150-BS9: 13.67 lbs (6.2 kg)
- MP-10150-BS1/SUR: 10.91 lbs (4.95 kg)

#### DIMENSIONS UNPACKAGED
- MP-10100-BSU/SUA: 9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)
- MP-10150-BS9: 14.57 x 4.57 x 4.21 in (370 x 370 x107 mm)
- MP-10150-BS1/SUR: 12 x 12 x 3.40 in (305 x 305 x 85 mm)

#### WEIGHT (UNPACKAGED)
- MP-10100-BSU/SUA: 4.20 lbs (1.9 kg)
- MP-10150-BS9: 7.27 lbs (3.3 kg)
- MP-10150-BS1/SUR: 5.30 lbs (2.4 kg)

### SAFETY STANDARDS
- UL 62368-1 2nd edition & 60950-22 2nd edition
- CAN/CSA C22.2 No 62368-114 & No 60950-22:17

### 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
- 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.

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