Designed to deliver over 630 Mbps of data throughput

The Multipoint 10100 product family is a series of very high throughput, reliable and cost-effective, near-line-of-sight point-to-multipoint wireless products. The Multipoint 10100 series supports the following features and is ideal for last mile access, video surveillance or mobility applications that need rugged and reliable high-speed network connectivity.

World Class Performance

- Point-to-Multipoint system that delivers up to 866 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)

Frequency Agnostic

- Operates in unlicensed bands from 4.900 to 5.925 GHz
- Flexible RF planning with 20, 40 and 80 MHz channel size

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
- Built in spectrum analyzer to analyze frequency bands for interference, and select the best available channel

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)

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

Rugged and Reliable

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

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-10100-BSU</td>
<td>Tsunami® MP 10100 Base Station, 866 Mbps, MIMO 2x2, Type-N Connectors</td>
</tr>
<tr>
<td></td>
<td>MP-10100-BSU-US</td>
</tr>
<tr>
<td>MP-10150-BS9</td>
<td>Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 90° sector antenna</td>
</tr>
<tr>
<td></td>
<td>MP-10150-BS9-US</td>
</tr>
<tr>
<td>MP-10150-BS1</td>
<td>Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna</td>
</tr>
<tr>
<td></td>
<td>MP-10150-BS1-US</td>
</tr>
<tr>
<td>MP-10100-SUA</td>
<td>Tsunami® MP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors</td>
</tr>
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<td></td>
<td>MP-10100-SUA-US</td>
</tr>
<tr>
<td>MP-10150-SUR</td>
<td>Tsunami® MP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna</td>
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<td></td>
<td>MP-10150-SUR-US</td>
</tr>
<tr>
<td>MP-10150-SUL</td>
<td>Tsunami® MP 10150 Subscriber Unit Long-range, 866 Mbps, MIMO 2x2, 28 dBi panel antenna</td>
</tr>
<tr>
<td></td>
<td>MP-10150-SUL-US</td>
</tr>
</tbody>
</table>

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: 80 MHz, 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

<table>
<thead>
<tr>
<th></th>
<th>80 MHz</th>
<th>40 MHz</th>
<th>20 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX POWER (dual RF)</td>
<td>MC50: 28 dBm</td>
<td>MC50: 28 dBm</td>
<td>MC50: 29 dBm</td>
</tr>
<tr>
<td></td>
<td>MC59: 21 dBm</td>
<td>MC59: 22 dBm</td>
<td>MC58: 25 dBm</td>
</tr>
<tr>
<td>RX SENSITIVITY (Per=10%)</td>
<td>MC50: -89 dBm</td>
<td>MC50: -93 dBm</td>
<td>MC50: -94 dBm</td>
</tr>
<tr>
<td></td>
<td>MC59: -68 dBm</td>
<td>MC59: -71 dBm</td>
<td>MC58: -74 dBm</td>
</tr>
</tbody>
</table>

THROUGHPUT (RFC 2544)

<table>
<thead>
<tr>
<th></th>
<th>Up to 672 Mbps</th>
<th>Up to 324 Mbps</th>
<th>Up to 137 Mbps</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTHER</td>
<td>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</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ANTENNA

MP-10100-BSU/SUA: Two N-type Connectors with built-in Surge Protection
MP-10150-BS9: Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna
MP-10150-BSI/SUR: Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna
MP-10150-SUL: Integrated 2x2 MIMO 28dBi Dual Polarized 2 feet Panel Antenna

MANAGEMENT

REMOTE: Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3
SYNCHRONIZATION: 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
AES 128

AUTHENTICATION
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
IP STACK
GATEWAY FEATURES
VLAN

Bridging, Routing (RIP v2 and IP tunneling)
IPv4 and IPv6 simultaneously
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 port1 (Power over Ethernet)
12 VDC via Access port
Power should not be provided simultaneously on both ports

OUTPUT
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
-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) except MP-10150-SUL 180 km/h (112.5 mph)

PHYSICAL SPECS

DIMENSIONS PACKAGED
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 3.40 in
(370 x 370 x 85 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)

MP-10150-SUL
27.55 x 6.85 x 27.55 in
(700 x 174 x 700 mm)
23.62 x 23.62 x 3.85 in
(600 x 600 x 92 mm)
23.15 lbs (10.5 kg)
14.33 lbs (6.5 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,
Railway: EN 50155 + EN 50121 + EN 61373

PACKAGE CONTENTS

• One Tsunami® MP-10100-BSU/SUA with two N-type surge protected connectors
• One Tsunami® MP-10150-BS9/BS1/SUR/SUL 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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