



Enhance wireless security with Multipoint 10100S series built in AES 256 capability

The Multipoint 10100S is an extremely secure version of the Multipoint 10100, a very high throughput, high power, especially reliable and cost-effective, near-line-of-sight point-to-multipoint wireless solution.

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 stacks for transparent evolution to tomorrow's networks.
- Triple level login with monitoring, simplified or advanced web interfaces.
- Built-in feature rich network protocols for bridging, routing and gateway functionality.
- 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 sizes.

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 conditions.
- Spectrum analyzer to analyze frequency bands for interference, and select the best available channel.

Carrier-Grade Solution

- Implements AES 256 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 frames.

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.

Key Technologies

The Multipoint 10100S supports the following features that make it ideal for video surveillance, Government or mobility applications that need ultra-secure very high-speed broadband wireless access:

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 10100S 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-10100L, 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

| PRODUCT MODELS | | PART NUMBERS | |
|--------------------------|--|------------------------|------------------------|
| MP-10100S-BSU-US | Tsunami® MP 10100 Base Station, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors | 901-00294 | MP-10100S-BSU-US |
| MP-10150S-BS9-US | Tsunami® MP 10150 Base Station, AES 256, 867 Mbps, MIMO 2x2, 90° sector antenna | 901-00296 | MP-10150S-BS9-US |
| MP-10100S-SUA-US | Tsunami® MP 10100 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors | 901-00295 | MP-10100S-SUA-US |
| MP-10150S-SUR-US | Tsunami® MP 10150 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna | 901-00297 | MP-10150S-SUR-US |
| 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 | | |
| 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 |
| TX POWER (dual RF) | MCS0: 28 MCS9: 21 | MCS0: 28 MCS9: 22 | MCS0: 29 MCS8: 25 |
| RX SENSITIVITY (Per=10%) | MCS0: -89 MCS9: -68 | MCS0: -93 MCS9: -71 | MCS0: -94 MCS8: -74 |
| THROUGHPUT (RFC 2544) | Up to 672 Mbps | 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-10100S-BSU/SUA | Two N-type Connectors with built-in Surge Protection | | |
| MP-10150S-BS9 | Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna | | |
| MP-10150S-SUR | Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna | | |
| 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 English, French, Spanish and Chinese | | |
| SYNCHRONIZATION | | | |
| | Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization | | |

| | | | | |
|------------------------------------|---|--|---|----------------------------|
| SECURITY | | | | |
| ENCRYPTION | AES 128 and AES 256 | | | |
| 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 Capabilities | 802.Ip priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType | | | |
| 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-10100S-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-10150S-BS9 | 18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm) | 14 x 14 x 3.40 in (370 x 370 x 85 mm) | 13.67 lbs (6.2 kg) | 7.27 lbs (3.3 kg) |
| MP-10150S-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 | | | | |
| | UL 60950, IEC 60950 (part -1 and -22) | | | |
| CERTIFICATIONS | | | | |
| | USA: FCC 90Y + 15E (UNII 15.247) Railway: EN 50155 + EN 50121 + EN 61000-6-4 + EN 61373 + EN 45545-2 | | | |
| PACKAGE CONTENTS | | | | |
| | <ul style="list-style-type: none"> • One Tsunami® MP-10100S-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-10150S-BS9/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. | | | |