

The industry-leading Tsunami™ MP.11 product line – providing the capabilities of fixed and mobile WiMAX for license-free frequency bands worldwide – has been extended with an indoor subscriber unit ideal for the residential market!

Proxim Wireless® is a leader and an early innovator in wireless technology for providing high-speed, long-range broadband wireless access to complement Wi-Fi® networks. The MP.11 product line has enabled municipalities and service providers to bridge the digital divide, increase productivity, cut network costs, and create new business opportunities — all through WiMAX features for license-free frequency bands worldwide. The 5012 subscriber unit is designed specifically for the residential market and accelerates the service provider's break-even point, making this product ideal for large-scale deployments.



5012-SUI (antenna not shown)

Outdoor Broadband Wireless Access

Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products. This portfolio includes:

- **Tsunami™ MP.11** – capabilities of fixed and mobile WiMAX for U.S. and global markets
- **Tsunami™ MP.16** – WiMAX for the 3.5 GHz frequency band
- **ORiNOCO® AP-4000MR** – outdoor Wi-Fi mesh for service providers and municipalities

Proxim Wireless is a global pioneer in scalable broadband wireless networking. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, point-to-multipoint and point-to-point products are available through our extensive global channel network.

MP.11 5012 Subscriber Unit Features:

- Indoor, self-installable form factor
- Throughput comparable to or better than cable/DSL: based on 12 Mbps aggregate throughput
- Priced for fast payback on large-scale deployments
- Bundled with 15 dBi Window Antenna for quick installation

MP.11 System Features:

- License-free frequency bands worldwide: versions available for 5.15-5.35 GHz, 5.47-5.725 GHz and 5.725-5.850 GHz
- Scheduled media access controller (MAC), also known as polling: enables a base station to hear all subscriber units, preventing nodes from interfering with each other and increasing system throughput
- Orthogonal frequency division multiplexing (OFDM): enhances non-line-of-sight performance improving deployment in challenging areas
- Quality of Service (QoS): supports voice, video and data converged networking
- RADIUS-based bandwidth management: deliver multiple service plans
- Asymmetric bandwidth management: increases service provider revenue through creation of uplink bandwidth tiers
- Dynamic Data Rate Selection (DDRS): maximizes subscriber coverage by allowing each subscriber to receive the maximum data rate possible
- Dynamic Frequency Selection (DFS): prevents interference with other systems; for 5.4 GHz, MP.11 has achieved ETSI EN 301-893 v1.3.1 certification
- Security: advanced encryption with AES protects over-the-air transmission; intracell blocking forbids direct communication between subscriber units
- Deployment tools: antenna alignment and remote management and configuration eliminate the need for truck rolls

FEATURES

PERFORMANCE AND SCALABILITY

Best-in-class Performance with WORP	By eliminating in-the-air collisions and maximizing data content for each transmission, Wireless Outdoor Router Protocol (WORP) significantly improves performance
Near Line of Sight Capable	Line of sight and near line of sight connectivity extends deployment flexibility in rural as well as high-density urban areas

QUALITY OF SERVICE (QoS)

WiMAX 802.16 QoS	Supports up to 8 QoS Classes; Supports up to 8 Service Flows per class
Traffic Prioritization Parameters Supported	IP ToS (Layer 3 QoS identification), IP Protocol List, 802.1p tag (Layer 2 QoS identification), Source IP Address+Mask, Destination IP Address+Mask, Source TCP/UDP port ranges, Destination TCP/UDP port ranges, Source MAC addresses, Destination MAC address, VLAN ID, Ether type
Committed Information Rate (CIR)	Users can set CIR for each Subscriber Unit
Minimum Information Rate (MIR) Support	User defined MIR

SECURITY

Unicast, Multicast and Broadcast Storm	User definable threshold levels prevent excessive bandwidth consumptions from degrading network control performance
Packet Filtering	MAC, Ether type, IP address filtering provides very granular network security
Intracell Blocking	Allows the BSU to act as the central policy enforcer for SU to SU communications, further enhancing subscriber units' privacy
Secure Encryption and Authentication	Support for WEP, WEP+ and AES for "over the air" encryption and Radius for user authentication
Interference Mitigation Tool	Variable Receive Threshold, Transmit Power Control and Dynamic Frequency Selection

LOWER COST OF OWNERSHIP

Dynamic Data Rate Selection (DDRS)	Automatically optimizes throughput as link conditions change or as subscribers roam; connectivity is automatically maintained when link quality degrades
Flexible and Secure Remote Management	Supports remote management via Telnet, SNMP and web interfaces with password protections
Antenna Alignment Tool	Provides running statistics with real time signal strength to aid antenna installation
Comprehensive Station Statistics	Unit and group statistics are available for monitoring, planning and management of a wireless network

PRODUCT MODELS		ENVIRONMENTAL SPECIFICATIONS	
5012-SUI-WA-US	Tsunami MP.11 Model 5012 Indoor Subscriber Unit with 15 dBi Window Antenna, US/CAN PSU	TEMPERATURE: OPERATING STORAGE	0° to 50°C -10° to 70°C
5012-SUI-WA-EU	Tsunami MP.11 Model 5012 Indoor Subscriber Unit with 15 dBi Window Antenna, EU PSU	HUMIDITY: OPERATING STORAGE	95% (non-condensing) 95% (non-condensing)
5012-SUI-WA-UK	Tsunami MP.11 Model 5012 Indoor Subscriber Unit with 15 dBi Window Antenna, UK PSU	ELECTRICAL	
INTERFACES		INPUT	110 to 240 VDC power 5V
WIRED ETHERNET	Wired Ethernet 10/100Base-TX Ethernet (RJ-45)	POWER OVER ETHERNET	Via RJ-45 Ethernet interface port
ANTENNA CONNECTOR	N-Male terminated pigtail	MANAGEMENT	
ANTENNA GAIN	15 dBi	LOCAL	RS-232 serial (RJ11 and DB-9)
RADIO & TRANSMISSION SPECIFICATIONS		REMOTE	Telnet Web GUI, TFTP
MODULATION METHOD	OFDM	SNMP	SNMPv1/v2; MIB-II ; Ethernet-like MIB; BridgeMIB; 802.3MAU; 802.11 MIB; Private MIB; ORINOCO MIB; RFC 1157; RFC 1213; RFC 1643; RFC 1493; RFC 2668
UNLICENSED FREQUENCIES	Americas (FCC): 5.25-5.35 GHz (15 channels) Americas (FCC): 5.725-5.850 GHz (21 channels) Europe (ETSI): 5.47-5.725 GHz (46 channels) Europe (Russia): 5.15-5.850 GHz (82 channels) Europe (Licensed in the UK): 5.725- 5.850 GHz (21 channels)	MTBF & WARRANTY	177,000 hours; 1 year parts and labor
LICENSED FREQUENCIES		LEDS	Power, Radio Activity, Ethernet Activity
DATA RATE	54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps	PACKAGE CONTENTS	5012-SUI Indoor Subscriber unit, N-type Male terminated pigtail, 15 dBi Window Antenna, Quick Installation Guide, CD with documentation and regulatory guide, Wall Mountable DC power supply, Mounting bracket for ceiling or wall mounting
TX POWER	Up to 18 dBm	RELATED PRODUCTS	Tsunami MP.11 5054 Base Station (5054-BSU), Tsunami MP.11 5054 Subscriber Station (5054-SU), 5 GHz Window or Panel Antennas, Active Ethernet injector (4301-XX), ServPak
UNIT PHYSICAL SPECIFICATIONS			
DIMENSIONS (Packaged)	14.3 x 7.6 x 4.4 inches (364 x 194 x 112 mm)		
WEIGHT (Packaged)	3.52 lbs (1.6 kg)		

For detailed technical specifications, please go to www.proxim.com

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