

# Edge 1025



## Product Snapshot

Proxim's Edge 1025 is the most versatile small wireless broadband solution available.

One device, multiple uses; whether you need a Point to Point endpoint, Multipoint CPE, or MultiPoint Base Station<sup>1</sup>, the Edge 1025 fits the bill.

- Wide Band 5 GHz Radio
- 4x4 MIMO radio delivering up to 380 Mbps<sup>2</sup>
- Advanced QoS for quad-play applications
- AES 128 encryption and Radius authentication
- Full tilt and swivel mounting kit included.

## Powered by WORP<sup>®</sup>

Proxim WORP enables the most efficient wireless broadband access possible in a packet-based network. Advanced QoS controls, committed interface rates, latency controls, IGMP snooping, and native multicast support allow granular service level management and the best video performance available in this product class.

## Advanced Interference Management

Proxim ClearConnect™ combines multiple dynamic technologies and delivers the best interference management solution available.

## Flexible Antenna Options

Includes an integrated 15 dBi 35-degree dual-polarity antenna and offers external connectors for extended range and MIMO 4x4 configuration options.

## Smartphone Configurator

Proxim's BlueConnect mobile app enables fast and efficient setup, monitoring, and troubleshooting.

## Rugged Reliability

IP67 rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

1. Full MultiPoint BaseStation Functionality requires the MP-1025-BS3-32SU-UPG upgrade license.

2. 4x4 MIMO requires an external antenna and can be configured as 4x4:2 for redundancy or 4x4:4 for higher throughput or smaller channel.

## Specifications

### PRODUCT MODELS

|                      |  |               |
|----------------------|--|---------------|
| MP-1025-BS3-WD       | Edge Multipoint 1025, Base Station, integrated antenna and RP-SMA          | PN: 901-00367 |
| MP-1025-BS3-32SU-UPG | Edge Multipoint 1025, Base Station, support for 1 to 32 SU license upgrade | PN: 997-00058 |

### INTERFACES

|                   |  |
|-------------------|--|
| WIRED ETHERNET    | One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in |
| WIRELESS PROTOCOL | WORP® (Wireless Outdoor Router Protocol)                 |

### RADIO & TX SPECS

|                  |  |
|------------------|--|
| MIMO             | 2x2:2, 4x4:2 and 4x4:4   |
| MODULATION       | OFDM BPSK-QAM256   |
| FREQUENCY        | 5.150 – 5.925 GHz (Subject to Country Regulations)                   |
| CHANNEL SIZE     | 20 and 40 MHz (license upgrade to 80 MHz)                            |
| TX POWER         | Up to 24 dBm (dual chain) or 27 dBm (quad chain)                     |
| TX POWER CONTROL | 0 - 21 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit |

|   | 20 MHz   | 40 MHz   | REQUIRES LICENSE UPGRADE<br>80 MHz |
|---|--|----------|------------------------------------|
| TX POWER  | MCS0:  | MCS0:    | MCS0:                              |
| 2 RF  | 24   | 23       | 21                                 |
| 4 RF  | 27   | 26       | 24                                 |
|   | MCS8:  | MCS9:    | MCS9:                              |
| 2 RF  | 19   | 18       | 17                                 |
| 4 RF  | 22   | 21       | 20                                 |
| RX SENSITIVITY (Per=10 <sup>-6</sup> )                  | MCS0:  | MCS0:    | MCS0:                              |
|   | -89  | -86      | -84                                |
|   | MCS8:  | MCS9:    | MCS9:                              |
|   | -67  | -62      | -59                                |
| Throughput-MIMO 2x2 Mode                                | 122 Mbps   | 294 Mbps | 380 Mbps                           |
| Throughput-MIMO 4x4 Mode<br>(Requires External Antenna) | 240 Mbps   | 380 Mbps | 380 Mbps                           |
| OTHER   | Dynamic Channel Selection (DCS) based on interference detection, Dynamic Frequency Selection (DFS)<br>based on radar signature |          |                                    |
|   | Automatic Transmit Power Control (ATPC) with EIRP limit support  |          |                                    |

### MANAGEMENT

|                        |   |
|------------------------|---|
| REMOTE                 | Telnet and SSH, Web GUI and SSL/TLS1.2, 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                         |

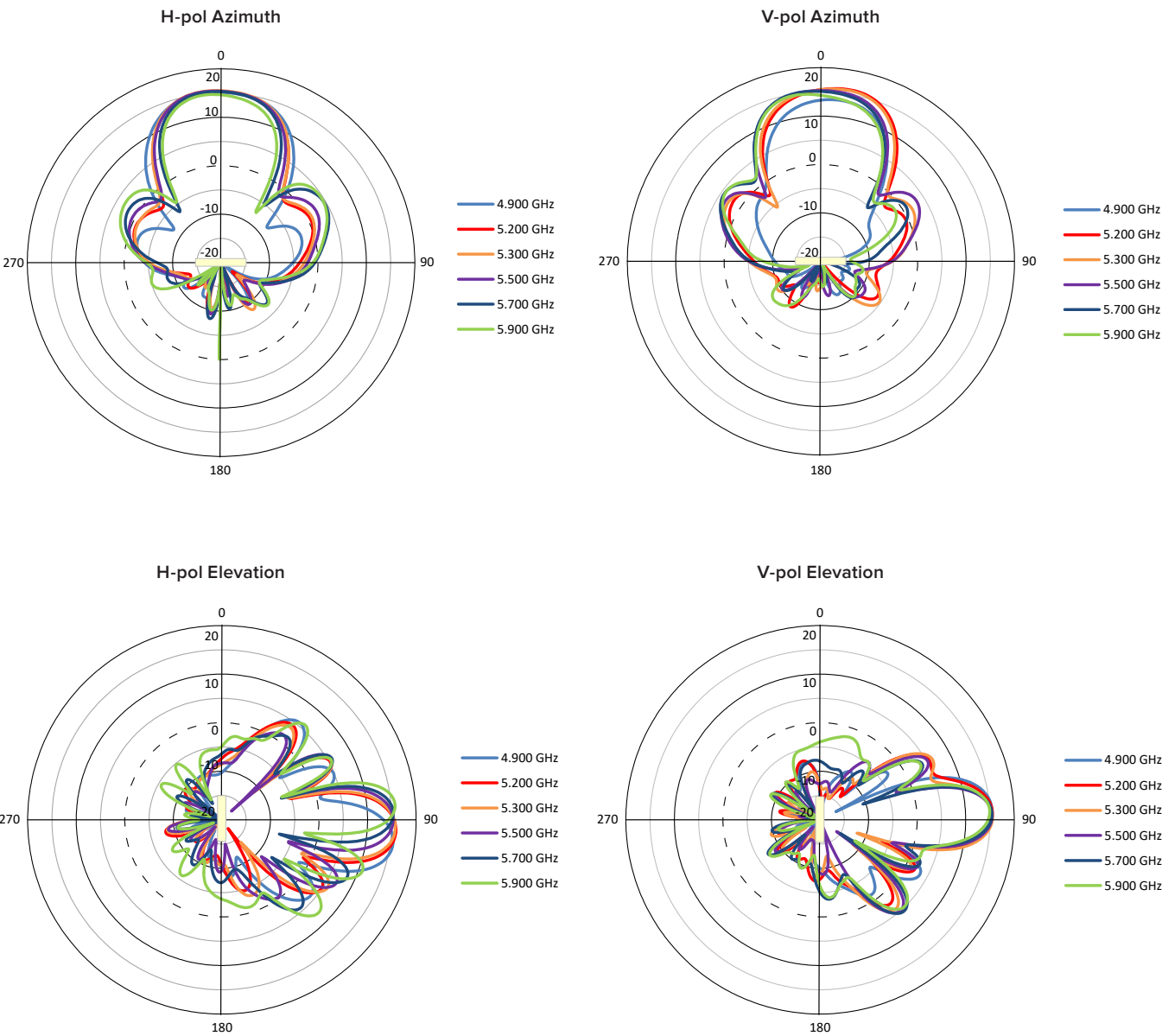
### SECURITY

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

ANTENNA

Integrated 2x2 MIMO 15 dBi Dual Polarized 35 degree Panel Antenna plus Four RP-SMA Connectors  
(Software switch between integrated antenna and connectors)

ANTENNA PATTERNS (Sector Mode)



QoS

|                                    |  |
|------------------------------------|--|
| Asymmetric Bandwidth Control       | Asymmetric UL/DL committed and maximum information rate per service flow                             |
| Packet Classification Capabilities | 802.1p 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

802.3af/at compliant (MIMO 4x4 mode requires 802.3at)

## POWER CONSUMPTION

10 W typical, 12 W max in MIMO 2x2 mode

22 W typical, 25 W max in MIMO 4x4 mode

| ENVIRONMENTAL SPECS | OPERATING TEMPERATURE   | STORAGE TEMPERATURE                              | HUMIDITY - IP RATING        | WIND LOADING          |
|---------------------|---|--|-----------------------------|-----------------------|
|                     | -30° to 55° Celsius<br>(-22° to 131° Fahrenheit)<br>Temporary increases up to 60°C (140° Fahrenheit) will not impact operation of the unit. | -50° to 70° Celsius<br>(-58° to 158° Fahrenheit) | 100% relative humidity–IP67 | 180 km/h (112.5 mph)  |
| PHYSICAL SPECS      | DIMENSIONS PACKAGED   | DIMENSIONS NPACKAGED                             | WEIGHT (PACKAGED)           | WEIGHT (UNPACKAGED)   |
| MP-1025-BS3         | 310 x 226 x 98 mm<br>(12.2 x 8.9 x 3.85 in)   | 170 x 217 x 56 mm<br>(6.7 x 8.55 x 2.2 in)       | 2.85 kg<br>(6.28 lbs)       | 1.24 kg<br>(2.73 lbs) |

## SAFETY STANDARDS

IEC 62368-1:2014 & 60950-22:2016  
CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17  
EN 62368-1:2014 + A11:2017 & 60950-22:2017

## CERTIFICATIONS

|        |  |
|--------|--|
| CANADA | RSS-247 issue 2, RSS-102 issue 5, ICES-003 issue 7   |
| EUROPE | RED EN 301 489-1 + EN 301 489-17 + EN 301 489-19 + EN 300 328 + EN 301 893 + EN 302 502 + EN 303 413 |

## PACKAGE CONTENTS

- One Edge MP-1025-BS3 with integrated antenna plus four RP-SMA connectors
- Five SMA weather proofing caps
- One M25 weather proofing cable gland
- One power injector and country specific power cord
- One full axis mounting kit
- One Grounding kit
- One Quick Installation Guide

## MTBF & WARRANTY

>250 000 hours, 2-year warranty, ServPak Extended Support available.

## ABOUT PROXIM WIRELESS :

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications.

Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.

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