



## Edge Quickbridge 1025, a cost effective urban wireless backhaul solution

The Proxim Edge Quickbridge 1025 is a highly reliable outdoor, high throughput Point to Point system designed to deliver years of reliable service and priced to fit cost-sensitive medium-range backhaul projects.

The Edge Quickbridge 1025 enables rapid deployment of fast and efficient networks and offers:

- High throughput with radio rates of 400 Mbps in MIMO 2x2:2 mode at 40 MHz (License upgradable to 1 Gbps in MU-MIMO 4x4:4 mode at 80 MHz)<sup>1</sup>
- High power radio delivering up to 27 dBm (4 RF) at 5 GHz.
- High reliability and advanced QoS for quad play applications.
- Dual IPv4 and IPv6 stacks.
- IP67 rated enclosure with surged protected ethernet port.

The Edge Quickbridge is powered by Proxim's advanced Wireless Outdoor Router Protocol (WORP). Among the many benefits of WORP is its effective use of bandwidth, granular service level management, and an advanced Quality of Service engine.

## Highly Secure

The Edge Quickbridge 1025 provides enterprise-class security to ensure full protection of sensitive information.

- AES 128 encryption and Radius based authentication.
- Secure management (SSL/TLS1.2, SSH, and SNMPv3).

## Easy to Deploy

The Edge Quickbridge 1025 simplifies network deployment and includes:

- Link kit: two endpoints in a box.
- Built-in 15 dBi 30-degree dual-polarity antenna, plus RP-SMA connectors for external antennas when an extended range is needed.
- Integrated full axis mounting kit.
- 802.3af/at Power over Ethernet.
- Bluetooth Low Energy interface for easy configuration via the Proxim BlueConnect smartphone application (Android and iOS).

## Centralized Management

The Edge Quickbridge 1025 is fully integrated into the ProximVision<sup>®</sup> Advanced management platform, giving network operators advanced management and monitoring options including:

- Rapid Network Deployment: automates configuration processes for faster, more efficient deployment of Proxim Wireless networks.
- Advanced Statistic and Analytic data for network optimization.

## Key Technologies

### Proxim WORP<sup>®</sup>

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

### Proxim ClearConnect<sup>™</sup>

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

## 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.

<sup>1</sup>

A license upgrade to include the 80 MHz Channel and MU-MIMO 4x4:4 for higher throughput will be available in a future software release.

## Specifications

| PRODUCT MODELS   |  | PART NUMBERS                |                          |
|--|--|-----------------------------|--------------------------|
| QB-1025-LNK  | Edge Quickbridge 1025, link, 400 Mbps, integrated antenna and RP-SMA (Two QB-1025-EPR)   | 902-00919    QB-1025-LNK-WD |                          |
| INTERFACES   |  |                             |                          |
| WIRED ETHERNET<br>WIRELESS PROTOCOL  | One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol)  |                             |                          |
| RADIO & TX SPECS   |  |                             |                          |
| MIMO<br>MODULATION<br>FREQUENCY<br>CHANNEL SIZE<br>DATA RATE<br>TX POWER<br>TX POWER CONTROL | 2x2:2 (license upgrade to 4x4:4)<br>OFDM BPSK-QAM256<br>5.150 – 5.925 GHz (Subject to Country Regulations)<br>20 and 40 MHz (license upgrade to 80 MHz)<br>Up to 400 Mbps (license upgrade upto 1000 Mbps)<br>Up to 24 dBm (dual chain) or 27 dBm (quad chain)<br>0 - 17 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit |                             |                          |
|  |  |                             | Requires License Upgrade |
|  | 20 MHz   | 40 MHz                      | 80 MHz                   |
| TX POWER   | MCS0:  | MCS0:                       | MCS0:                    |
| 2 RF   | 24   | 24                          | 23                       |
| 4 RF   | 27   | 27                          | 26                       |
|  | MCS8:  | MCS9:                       | MCS9:                    |
| 2 RF   | 20   | 20                          | 19                       |
| 4 RF   | 23   | 23                          | 22                       |
| RX SENSITIVITY (Per=10 <sup>-6</sup> )   | MCS0:  | MCS0:                       | MCS0:                    |
|  | -94  | -91                         | -88                      |
|  | MCS8:  | MCS9:                       | MCS9:                    |
|  | -71  | -66                         | -62                      |
| ANTENNA  |  |                             |                          |
|  | Integrated 2x2 MIMO 15 dBi Dual Polarized 30 degree Panel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors)  |                             |                          |
| 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)  |                             |                          |
| 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 in MIMO 2x2 mode<br>16 W in MIMO 4x4 mode  |  |                              |                       |
| ENVIRONMENTAL SPECS | OPERATING TEMPERATURE   | STORAGE TEMPERATURE                              | HUMIDITY - IP RATING         | WIND LOADING          |
|                     | -30° to 55° Celsius<br>(-22° to 131° Fahrenheit)  | -50° to 70° Celsius<br>(-58° to 158° Fahrenheit) | 100% relative humidity –IP67 | 180 km/h (112.5 mph)  |
| PHYSICAL SPECS      | DIMENSIONS PACKAGED   | DIMENSIONS UNPACKAGED                            | WEIGHT (PACKAGED)            | WEIGHT (UNPACKAGED)   |
| QB-1025-EPR         | 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    |   |  |                              |                       |
|                     | UL/IEC/EN 62386-1 and 60950-22  |  |                              |                       |
| PACKAGE CONTENTS    |   |  |                              |                       |
|                     | <ul style="list-style-type: none"><li>• One Edge Quickbridge QB-1025-LNK with integrated antenna plus four RP-SMA connectors (Two QB-1025-EPR)</li><li>• Ten RP-SMA weather proofing caps</li><li>• Two M25 weather proofing cable glands</li><li>• Two power injectors and country specific power cords</li><li>• Two full axis mounting kits</li><li>• Two Grounding kits</li><li>• Two Quick Installation Guides</li></ul> |  |                              |                       |
| MTBF & WARRANTY     |   |  |                              |                       |
|                     | >250 000 hours, 2-year warranty, ServPak Extended Support available.  |  |                              |                       |