Edge Quickbridge 1015, a cost-effective urban wireless backhaul solution

The Proxim Edge Quickbridge 1015 is a highly reliable outdoor Point to Point system designed to deliver years of reliable service and priced to fit cost-sensitive medium-range backhaul projects.

The Edge Quickbridge 1015 enables rapid deployment of fast and efficient networks and offers:
- A throughput of 100 Mbps with channel sizes from 20 to 80 MHz (license upgradable to 200 Mbps).
- A 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 surge 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 1015 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 1015 simplifies network deployment and includes:
- Link kit: two endpoints in a box.
- Built-in 15 dBi 35-degree dual-polarity antenna, plus RP-SMA connectors for external antennas when an extended range is needed.
- Integrated full axis mounting kit.
- 802.3at/at Power over Ethernet.
- Bluetooth Low Energy interface for easy configuration via the Proxim BlueConnect smartphone application for Android and iOS.

Centralized Management Options

The Edge Quickbridge 1015 is fully integrated into the ProximVision® 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.
- Central upgrade management.
- Advanced Statistic and Analytic data for network optimization.

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.

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1 A license upgrade to activate MIMO 4x4:4 for higher throughput over the same occupied frequency band will be available in a future software release.
## Specifications

### PRODUCT MODELS

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QB-1015-LNK</td>
<td>902-00941</td>
</tr>
<tr>
<td>Edge Quickbridge 1015, link, 100 Mbps, integrated antenna and RP-SMA (Two QB-1015-EPR)</td>
<td>QB-1015-LNK-US</td>
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### LICENSES

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<tbody>
<tr>
<td>QB-1015-LNK-200-UPG</td>
<td>997-00056</td>
</tr>
<tr>
<td>Edge Quickbridge 1015, link, 100 Mbps to 200 Mbps license upgrade</td>
<td></td>
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### INTERFACES

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<tbody>
<tr>
<td>WIRED ETHERNET</td>
<td>One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in</td>
</tr>
<tr>
<td>WIRELESS PROTOCOL</td>
<td>WORP® (Wireless Outdoor Router Protocol)</td>
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</table>

### RADIO & TX SPECS

<table>
<thead>
<tr>
<th>MIMO</th>
<th>2x2:2 and 4x4:4’</th>
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<tr>
<td>MODULATION</td>
<td>OFDM BPSK-QAM256</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>5.150 – 5.925 GHz (Subject to Country Regulations)</td>
</tr>
<tr>
<td>CHANNEL SIZE</td>
<td>20, 40, 80 MHz</td>
</tr>
<tr>
<td>THROUGHPUT</td>
<td>Up to 100 Mbps (license upgrade to 200 Mbps)</td>
</tr>
<tr>
<td>TX POWER</td>
<td>Up to 24 dBm (dual chain) or 27 dBm (quad chain)</td>
</tr>
<tr>
<td>TX POWER CONTROL</td>
<td>0 - 17 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit</td>
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### WIRED ETHERNET

- One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in

### WIRELESS PROTOCOL

- WORP® (Wireless Outdoor Router Protocol)

### MIMO

- 2x2:2 and 4x4:4

### MODULATION

- OFDM BPSK-QAM256

### FREQUENCY

- 5.150 – 5.925 GHz (Subject to Country Regulations)

### CHANNEL SIZE

- 20, 40, 80 MHz

### THROUGHPUT

- Up to 100 Mbps (license upgrade to 200 Mbps)

### TX POWER

- Up to 24 dBm (dual chain) or 27 dBm (quad chain)

### TX POWER CONTROL

- 0 - 17 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

### 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

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

### MANAGEMENT

- Telnet and SSH, Web GUI and SSL/TLS1.2, TFTP, SNMPv3
- Syslog, sFlow® agent, SNTP and local time, Spectrum analyzer
- Multi-Language Support: Web Interface available in English, French, Spanish and Chinese

### SECURITY

- Encription: 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

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1 A license upgrade to activate MU-MIMO 4x4:4 for higher throughput over the same occupied frequency band will be available in a future software release.
## NETWORK

<table>
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<tr>
<th>MODES</th>
<th>Bridging, Routing (RIP v2 and IP tunneling)</th>
</tr>
</thead>
</table>

| 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
- 16 W in MIMO 4x4 mode

## ENVIRONMENTAL SPECS

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE</th>
<th>STORAGE TEMPERATURE</th>
<th>HUMIDITY - IP RATING</th>
<th>WIND LOADING</th>
</tr>
</thead>
<tbody>
<tr>
<td>-22° to 131° Fahrenheit (-30° to 55° Celsius)</td>
<td>-58° to 158° Fahrenheit (-50° to 70° Celsius)</td>
<td>100% relative humidity – IP67</td>
<td>112.5 mph (180 km/h)</td>
</tr>
</tbody>
</table>

## PHYSICAL SPECS

<table>
<thead>
<tr>
<th>DIMENSIONS PACKAGED</th>
<th>DIMENSIONS UNPACKAGED</th>
<th>WEIGHT (PACKAGED)</th>
<th>WEIGHT (UNPACKAGED)</th>
</tr>
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<tbody>
<tr>
<td>QB-1015-EPR</td>
<td>12.2 x 8.9 x 3.85 in (310 x 226 x 98 mm)</td>
<td>6.7 x 8.55 x 2.2 in (170 x 217 x 56 mm)</td>
<td>5.84 lbs (2.65 kg)</td>
</tr>
</tbody>
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## SAFETY STANDARDS

- IEC/EN 62386-1

## CERTIFICATIONS

- FCC part 15B class B (EMC), part 15C (Bluetooth) and part 15E (5 GHz radio)

## PACKAGE CONTENTS

- One Edge Quickbridge QB-1015-LNK with integrated antenna plus four RP-SMA connectors (Two QB-1015-EPR)
- Ten RP-SMA weather proofing caps
- Two M25 weather proofing cable glands
- Two power injectors and country specific power cords
- Two full axis mounting kits
- Two Grounding kits
- Two Quick Installation Guides

## MTBF & WARRANTY

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