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).
- Improved robustness with dual data stream diversity over four RF flow: MIMO 4x4:2
- 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 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 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.
- 802.3af/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.

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.

Specifications

PRODUCT MODELS		PART NUMBERS	
QB-1015-LNK	Edge Quickbridge 1015, link, 100 Mbps, integrated antenna and RP-SMA (Two QB-1015-EPR)	902-00941	QB-1015-LNK-US
LICENSES		**PART NUMBERS**	
QB-1015-LNK-200-UPG	Edge Quickbridge 1015, link, 100 Mbps to 200 Mbps license upgrade	997-00056	
INTERFACES			
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol)		
RADIO & TX SPECS			
MIMO MODULATION FREQUENCY CHANNEL SIZE THROUGHPUT TX POWER TX POWER CONTROL	2x2:2, 4x4:2 and 4x4:4 OFDM BPSK-QAM256 5.150 – 5.925 GHz (Subject to Country Regulations) 20, 40, 80 MHz Up to 100 Mbps (license upgrade to 200 Mbps) Up to 24 dBm (dual chain) or 27 dBm (quad chain) 0 - 21 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit		

	20 MHz	40 MHz	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^{-6})	MCS0:	MCS0:	MCS0:
	-89	-86	-84
	MCS8:	MCS9:	MCS9:
	-67	-62	-59
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	
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 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
	-22° to 131° Fahrenheit (-30° to 55° Celsius)	-58° to 158° Fahrenheit (-50° to 70° Celsius)	100% relative humidity— IP67	112.5 mph (180 km/h)

PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
QB-1015-EPR	12.2 x 8.9 x 3.85 in (310 x 226 x 98 mm)	6.7 x 8.55 x 2.2 in (170 x 217 x 56 mm)	5.84 lbs (2.65 kg)	2.73 lbs (1.24 kg)

SAFETY STANDARDS	
	IEC 62368-1:2016 & 60950-22:2016

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 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.