

ORiNOCO® QB-9100 Series

Access Point with built-in Backhaul





Proxim introduces the ORiNOCO® Quickbridge® 9100, the first wireless solution that combines a 2.4 GHz Access Point and 5 GHz Backhaul

ORiNOCO® Quickbridge® 9100 takes advantage of Proxim's expertise in both Wi-Fi and long haul point-to-point systems to deliver a 2.4 GHz 802.11n Access Point with a built-in 5 GHz high capacity backhaul solution.

With dual radio support, one for Wi-Fi and one for high capacity backhaul the, ORINOCO ® QB-9100 is ideal for Carriers who need wireless backhaul for their 3G/4G small cell and can have the backhaul and Wi-Fi offload in a single unit ORINOCO® QB-9100 also offers new capability to Video Protection or ITS network by providing operators with secure Wi-Fi access to information from the unit while in the field, on standard Wi-Fi devices.

ORINOCO® Quickbridge® 9100 leverages the benefits of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP®) to provide wireless performance in excess of 4G or Wi-Fi based backhaul products today.

World Class Performance

- 802.11b/g/n Wi-Fi certified Access Point that delivers 300 Mbps data rate
- Point-to-Point Backhaul that delivers 866 Mbps data rate at distances of over 5 miles (8 km)
- Very low latency of 2 to 3 ms to support voice and video applications over long distances
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks
- Built-in feature rich network protocols for bridging, routing and gateway functionality

Highly Secure

- Implements AES encryption and Radius authentication for secure outdoor wireless communications
- Secure management (SSL/TLS1.2, SSH and SNMPv3) preventing unwanted configuration changes

Advanced Features

- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Supports Deep packet inspection to create unique and sophisticated service rules and tiered service classes with ease
- Compatibility with LACP switches for link aggregation
- Built in spectrum analyzer to scan frequency bands for interference, and select a channel appropriately

Carrier-Grade Backhaul

- Features Ethernet ports with IEEE 1588v2 synchronization and support for Jumbo frames
- Public HotSpot integration with Home Page redirect and Walled Garden
- HotSpot 2.0 to automatically discover and seamlessly authenticate to public Wi-Fi networks

Unparalleled Flexibility and Convenience with Centralized Management

- ProximVision® Advanced supports ORiNOCO® QB-9100 giving network architects unparalleled flexibility and control of the units
 - Rapid Network Deployment: Automates configuration processes for faster, more efficient deployment of Proxim Wireless networks
 - Advanced Configuration Capabilities: Gives network managers an option for exhaustive device configuration with a software-based tool
 - Greater Ease of Use and Upgradability: Supports a greater number of devices than competitively priced solutions and provides the simplest path to configuration and upgrade

PRODUCT MODELS								
QB-9100	OPINOCO® OP 0100 MIMO 2:-2	20211a/n AP with link 967 Mhno MIMAO	2v2 Type N Connector					
QB-9150	ORINOCO® QB-9100, MIMO 2x2, 802.11g/n AP with link, 867 Mbps, MIMO 2x2, Type-N Connectors ORINOCO® QB-9150, MIMO 2x2, 802.11g/n AP with link, 867 Mbps, MIMO 2x2, 22 dBi panel							
INTERFACES								
WIRED ETHERNET WIRELESS PROTOCOL	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet - Port #1 with PoE in & Data - Radio #1: WORP® - Radio #2: 802.11b/g/n (Remote end only)							
RADIO		Radio #1			Radio	#2 (Remote end only)		
FREQUENCY	5.150 – 5.925 GHz (Subject to Country Regulations)			2.400 – 2.484 (Subject to Country Regulations)				
				802.11n		802.11g 802.11b		
MIMO	2x2:2			2x2:2		N/A	N/A	
MODULATION		OFDM BPSK - QAM256			PSK - QAM64	OFDM BPSK-QAM64	DSSS DBPSK-CCK	
DATA RATE		Up to 866 Mbps		Up to	300Mbps	Up to 54Mbps	Up to 11Mbps	
	80 MHz	40 MHz	20 MHz	40 MHz	20 MHz	20 MHz	20 MHz	
TX POWER	MCS0: 28	MCS0: 28	MCS0: 29	MCS0/8: 26	MCS0/8: 26	6 Mbps: 26	1 Mbps: 26	
	MCS9: 21	MCS9: 22	MCS8: 25	MCS7/15: 20	MCS7/15: 21	54 Mbps: 22	11 Mbps: 26	
RX SENSITIVITY (BER=10-6)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0/8: -88/90		6 Mbps: -93	1 Mbps: -93	
	MCS9: -68	MCS9: -71	MCS8: -74	MCS7/15: -72/69	MCS7/15: -74/72	54 Mbps: -77	11 Mbps: -89	
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	Radio #1 Radio #2 (Remote end only)							
QB-9100	Two N-type	Two N-type Connectors with built-in Surge Protection						
QB-9150	Integrated 2	Two N-type Connectors with built-in Surge Protection						
SECURITY	Radio #1 Radio #2 (Remote end only)							
ENCRYPTION AUTHENTICATION 802.1X SUPPORT	Internal MAC Ad	802.11/WPA2 and WPA Wireless Security with AES-128, TK/P or WEP Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA						
qos	Radio #1			Radio #2 (Remote end only)				
Packet Classification Capabilities	Asymmetric UL/DL CIR (committed) and MIR (maximum) information rate per service flow with Best Effort and Real Time Polling Services 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues 802.1p priority, IPTOS				
THROUGHPUT	Radio #1 Radio #2 (Remote end only)							
	Up to 633 Mbps @ 80 MHz					Up to 150 Mbps		
MANAGEMENT								
REMOTE SNMP OTHER	Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-3412, RFC-3414, Private MIB Syslog, sFlow" agent, SNTP and local time, Spectrum analyzer							
SYNCHRONIZATION	IEEE 1588v2 Ethernet Synchroniz	ation						
NETWORK	ieee issore enterior synamonic	Radio #2 (Remote end only)						
MODES IP STACK	Radio #1 Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously			Access Point				
GATEWAY FEATURES VLAN	DHCP Server & relay, NAT with Std ALGs 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging							
POWER		оитрит						
	36 to 57 VDC via Ethernet port1 (Power over Ethernet) (PoE) 12 VDC via Access port Power should not be provided simultaneously on both ports.			4		tt max on Ethernet port2 (PoE - DC on Access port	- software controlled)	
POWER CONSUMPTION								
	Local end: 14 Watt typical, 17.5 Wa	tt maximum, remote end 16.5 Watt typica	I, 22.5 Watt maximum					
ENVIRONMENTAL SPECS								
OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY - IP RATING WIND LOADING	-40° to 60°C (-40° to 140° Fahrer -50° to 70°C (-58° to 158° Fahrer 100% relative humidity - IP67 180 km/h (112.5 mph)							
PHYSICAL SPECS	DIMENSIONS			WEIGHT (Local / Remote end)				
PACKAGED (per unit) UNPACKAGED (per unit)	QB-9150 14.5 QB-9100 9.84	QB-9150 14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm) QB-9100 9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)			9.92 lbs (4.5 kg) / 10.91 lbs (4.95 kg) 10.91 lbs (4.95 kg) / 11.90 lbs (5.4 kg) 4.20 lbs (1.9 kg) / 5.07 lbs (2.3 kg)			
CAFFTY CTANDADA	QB-9150 12 x	12 x 3.40 in (305 x 305 x 85 mm)			5.30 lbs (2.4 kg) / 6.17 lbs (2.8 kg)		
SAFETY STANDARDS	III COOED CANICCA COO CA	DOED IEC CODED EN CODES (2)					
CERTIFICATIONS	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)							
CERTIFICATIONS PACKAGE CONTENTS	USA: FCC 90Y + 15C + 15E (UNII 15.247); Canada: IC RSS 102 + RSS 111 + RSS 247; Europe: RED EN 301 489-1 + EN 301-489-17 + EN 300 328 + EN 301 893 + EN 302 502							
PACKAGE CONTENTS	One ORiNOCO® QB-9100 link with two (local) / four four (remote) N-type surge protected connecto Or One ORiNOCO® QB-9150 link with integrated 22 dBi panel antenna (local and remote) plus Two N-type surge protected connectors (remote only) Two power injector and country specific power cord Two Connector weatherproofing kit (Includes all recommended weatherproofing material)			ors • Two 2.4 GHz, 5 dBi omni antennas • Two Grounding kit • One Antenna alignment (RJtf) dongle • One Quick Installation Guide • Two Wall / Pole mounting kit				
MTBF and WARRANTY	Two Confector weatherproofin	9 (meidaes all recommended weather)	p. coming material)	• 10	-5 **an / FOIE IIIOUNUI	ng nit		

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