

ORiNOCO® QB-9100 Series







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							
PRODUCT MODELS QB-9100	ORINOCO® OR-9100 MIMO	Dy2 80211g/n AP with link 867 Mbps MIMO	2x2 Type-N Connectors				
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)	
EDEOLIENOV	5.150 – 5.925 GHz (Subject to Country Regulations)						
FREQUENCY				2.400 – 2.484 (Subject to Country Regulations) 802.11n 802.11g 802.11b			
MIMO	2x2:2						N/A
MODULATION	OFDM BPSK - QAM256		OFDM BPS		OFDM BPSK-QAM64	DSSS DBPSK-CCI	
DATA RATE	Up to 866 Mbps					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	MCS0/8: -92/91	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			Automatic Channel Selection (ACS)			
NTENNA		Radio #1			Radio #	2 (Remote end only)	
QB-9100	Two N-type Connectors with built-in Surge Protection			Two N-type Connectors with built-in Surge Protection			
DB-9150	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna			Two N-type Connectors with built-in Surge Protection			
SECURITY		Radio #2 (Remote end only)					
ENCRYPTION AUTHENTICATION 802.1X SUPPORT	AES 128 Internal MAC Address Control List, Radius based Authentication			802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA			
oos		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,			802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues 802.1p priority, IPTOS			
THROUGHPUT	and EtherType				Padio #	2 (Remote end only)	
INCOGNICI	Radio #1 Up to 633 Mbps @ 80 MHz			Up to 150 Mbps			
MANAGEMENT		Op to 000 Hibps @ 00 Hill2			0	p to 130 Mbp3	
REMOTE SNMP DTHER		I SSL, TFTP, SNMPv3 FC-1215, RFC-2790, RFC-2571, RFC-3412, RFC Ind local time, Spectrum analyzer	-3414, Private MIB				
SYNCHRONIZATION							
	IEEE 1588v2 Ethernet Synchro	onization					
NETWORK		Radio #1			Radio #	2 (Remote end only)	
MODES P STACK GATEWAY FEATURES VLAN	Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging			Access Point			
POWER		INPUT				ОUТРUТ	
	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.			48 to 57 VDC – 25 Watt max on Ethernet port2 (PoE – software controlled) 12 VDC on Access port			
POWER CONSUMPTION							
	Local end: 17 Watt typical, ren	note end 23 Watt typical					
ENVIRONMENTAL SPECS							
OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY - IP RATING WIND LOADING	-40° to 60°C (-40° to 140° Fal -50° to 70°C (-58° to 158° Fal 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 1 QB-9100 9	4.56 x 13.0 x 7.87 in (370 x 331 x 200 mm) 4.56 x 13.0 x 7.87 in (370 x 331 x 200 mm) 9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm) 2 x 12 x 3.40 in (305 x 305 x 85 mm)	.0 x 7.87 in (370 x 331 x 200 mm) 10.91 lbs (4.95 kg) / 11.90 lbs (5.4 kg i6 x 2.83 in (250 x 220 x 72 mm) 4.20 lbs (1.9 kg) / 5.07 lbs (2.3 kg)			/ 11.90 lbs (5.4 kg) 5.07 lbs (2.3 kg)	
SAFETY STANDARDS		,			. 37		
	UL 60950, CAN/CSA-C22.2 No	o. 60950, IEC 60950, EN 60950 (part -1 and -22	2)				
PACKAGE CONTENTS		•					
	 One ORiNOCO® QB-9100 link with two (local) / four four (remote) N-type surge protected connector 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 			ors Two 2.4 GHz, 5 dBi omni antennas Two Grounding kit One Antenna alignment (RJ11) dongle One Quick Installation Guide Two Wall / Pole mounting kit			
	Or One ORINOCO® QB-915 plus Two N-type surge prof • Two power injector and cou	50 link with integrated 22 dBi panel antenna (sected connectors (remote only)	local and remote)	• Two • One • One	Grounding kit Antenna alignment (F Quick Installation Gu	RJ11) dongle ide	