

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							
QB-9100	ORINOCO® QB-9100, MIMO 2x2, 802.11g/n AP with link, 867 Mbps, MIMO 2x2, Type-N Connectors						
QB-9150	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® - Port #2 with PoE out & Data - Radio #2: 802.11b/g/n (Remote end only)						
RADIO	Radio #1 Radio #2 (Remote end only)						
FREQUENCY	5.150 - 5.925	2.400 – 2.484 (Subject to Country Regulations)					
				80.	2.11n	802.11g	802.11b
MIMO		2x2:2		2×	2:2	N/A	N/A
MODULATION		OFDM BPSK - QAM256			SK - QAM64	OFDM BPSK-QAM64	DSSS DBPSK-CCK
DATA RATE		Up to 866 Mbps			00Mbps	Up to 54Mbps	Up to 11Mbps
DAIA NAIL	80 MHz	40 MHz	20 MHz	40 MHz	20 MHz	20 MHz	20 MHz
TV POWER							
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 Automatic Channel Selection (ACS) 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 Connectors with built-in Surge Protection			Two N-type Connectors with built-in Surge Protection			
QB-9150	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna			Two N-type Connectors with built-in Surge Protection			
SECURITY	Radio #1					#2 (Remote end only)	
ENCRYPTION AUTHENTICATION 802:1X SUPPORT	AES 128 802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP Internal MAC Address Control List, Radius based Authentication Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA						or Open
QOS		Radio #1		Radio #2 (Remote end only)			
	Acummotria III /DI	802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues					
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			802.1p priority, IPTOS			
THROUGHPUT			Radio #	#2 (Remote end only)			
	Up to 633 Mbps @ 80 MHz				L	Jp to 150 Mbps	
MANAGEMENT							
REMOTE SNMP OTHER		1215, RFC-2790, RFC-2571, RFC-3412, RFC-34	14, Private MIB				
SYNCHRONIZATION	Syslog, sFlow™ agent, SNTP and	nocar time, Spectrum analyzer					
STNCHRONIZATION							
	IEEE 1588v2 Ethernet Synchroni	zation					
NETWORK	Radio #1			Radio #2 (Remote end only)			
MODES IP 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						
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.			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, remote end 23 Watt typical						
ENVIRONMENTAL SPECS		** **					
OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY - IP RATING WIND LOADING	-40° to 60°C (-40° to 140° Fahrenheit) -50° to 70°C (-58° to 158° Fahrenheit) 100% relative humidity - IP67 180 km/h (112.5 mph)						
PHYSICAL SPECS		DIMENSIONS			WEIGHT (Local	/ Remote end)	
PACKAGED (per unit)	QB-9100 14.5	56 x 13.0 x 7.87 in (370 x 331 x 200 mm)				/ 10.91 lbs (4.95 kg)	
UNPACKAGED (per unit)	QB-9150 14.5 QB-9100 9.8	56 x 13.0 x 7.87 in (370 x 331 x 200 mm) 4 x 8.66 x 2.83 in (250 x 220 x 72 mm) x 12 x 3.40 in (305 x 305 x 85 mm)			10.91 lbs (4.95 kg	ı) / 11.90 lbs (5.4 kg) / 5.07 lbs (2.3 kg)	
SAFETY STANDARDS							
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)						
CERTIFICATIONS							
	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		,	,			2 202	
JOHNOL CONTENTS	• One ORINOCO® QB-9100 link with two (local) / four four (remote) N-type surge protected connectors • Two 2.4 GHz, 5 dBi omni antennas						
	Or One ORINOCO® QB-9150 plus Two N-type surge protect • Two power injector and count	link with integrated 22 dBi panel antenna (loca ted connectors (remote only)	al and remote)	• Two • One • One	2.4 GHz, 5 dBi omni a Grounding kit Antenna alignment (Quick Installation Gu Wall / Pole mounting	RJ11) dongle uide	

MTBF and WARRANTY