# EXICOM

EX8310 is a wireless ethernet bridge communications link providing up to 108 Mbps for 802.11a and 802.11i ethernet connectivity. EX8310 utilises OFDM technology in the 5 GHz bands for links of up to 50 Km. Exicom's EX8310 is bandwidth selectable to meet a variety of capacity, speed, scalability and user needs while optimising frequency usage delivering services such as broadband data, video and VOIP.

## COMPETITIVE ADVANTAGE

- Ideal for bandwidth hungry applications
- Designed for extreme environmental conditions
- Adjustable bandwidth for capacity, speed and scaleability

## SUPERIOR FLEXIBILITY

- > Flexible Multipoint, Mesh or Point-Point
- Configuration flexibility
  - Up to 32 Subscribers per base station
  - High security levels

ETHERNET BRIDGE MULTIPOINT, MESH AND POINT-TO-POINT WIRELESS COMMUNICATIONS SYSTEM

EX8310

### HIGH PERFORMANCE

- High system gain for long range
- Power over ethernet
- Rugged IP66 outdoor terminal
- Flexible architecture for best range performance
- Up to 108 Mbps data throughput

## LOW COST OF OWNERSHIP

- Fast deployment
- Low cost simple installation
- Low power consumption
- Low maintenance
- Realtime NMS monitoring

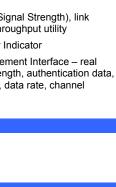


## Features

- 802.3, 802.11a and 802.11i connectivity ٠
- Range up to 50 Km ٠
- Repeater option available for increased range ٠
- 10/100BaseT interconnectivity ٠
- ٠ Field stations in weatherproof cabinet
- Low power consumption ٠
- Licence free for 4.94 5.85 GHz systems in many countries ٠
- Panel and Hi-gain parabolic antenna options ٠
- ٠ Separate antenna for ease of installation

#### **System Parameters**

·			
<b>System Parameters</b>		EX	10
Frequency bands (MHz)			ICOM M
4.9 GHz Band	4.940 to 4.990 GHz (FCC)		IVI TIN
5.3 GHz Band 5.7 GHz Band	5.250 to 5.350 GHz (FCC, Canada) 5.470 to 5.720 GHz (FCC, ETSI, ITU)		55
5.8 GHz Band	5.725 to 5.850 MHz (ETSI, FCC)		
RF Channels (MHz)	Non-overlapping channels		
. ,	5, 10, 20 and 40 MHz wide channels	EX	3310 Terminal
Radio Type	Orthogonal Frequency Division Multiplexing (OFDM)		
Modulation Type	64QAM	Configuration and N	
	16QAM QPSK	Configuration Utility	Built-in webserver, Telnet
	BPSK	Software Upgrades	FTP Download
Radio Access Method	Direct Sequence	Antenna Alignment Tools	Built in RSSI (Signal Strength optimisation/ throughput utilit
System Range @5.8 GHz (with 35 dBi antenna option,	Up to 50 Km	LED Status Indicator	Remote Power Indicator
line of sight path, interference free spectrum)		Real-Time Link Monitoring	Secure Management Interfact time signal strength, authenti system uptime, data rate, cha selection
Air Interface	IEEE 802.3, 802.11a and 802.11i		
	hardware with proprietary bridging	Power	
	extensions	Power Supply Voltage	12VDC
Data Port/LAN Interface	10/100BaseT autosensing Ethernet	Power Consumption	5W
Data Rate	Up to 108 Mbps	The function of all	
Connector	RJ-45	Environmental	
Baseband Cable Distance	Up to 100m between network connection and outdoor unit	Operating Temperature	-20°C to +55°C
VLAN	802.1g, 802.1p, VPN Router and Switch	Humidity (at ambient)	5 to 95% RH, non-condensin
VLAN	Compatibility	Exposure to Elements	IP66, NEMA 4X, all except s
<b>RF Specifications</b>		Mechanical	
RX Sensitivity	-73 to -91 dBm	Terminal Case	Extruded Fibreglass with nec gasket, NEMA 4X (equal to I
Transmitter Power	+21 dBm maximum. (Set to local regulatory requirements to comply with		wind and ice protected
	transmit, conducted and EIRP power limits)	Mounting	Wall or Pipe/pole 25 to 57mm
Duty Cycle	100% at 55°C ambient	Size (mm)	330(h) x 280(w) x 150(d)
Antenna Connector	N-Type Female	Weight	3.62kg per terminal
System ERP	39dBi (21dBm TX+18dBi antenna)		
Antenna Options	Omni, panel, sector and parabolic 9 to 28 dBi gain	• Full duplex repeater	
Socurity			
Security Authentication and	Secure RF architecture – Multi-layer link		
Encryption	authentication		
	AES-128/WEP 152-bit data encryption		
	options, support for radius authentication		



Invironmental	
perating Temperature	-20°C to +55°C
lumidity (at ambient)	5 to 95% RH, non-condensing
xposure to Elements	IP66, NEMA 4X, all except submerged

EX8310

Terminal Case	Extruded Fibreglass with neoprene gasket, NEMA 4X (equal to IP66), rain, wind and ice protected
Mounting	Wall or Pipe/pole 25 to 57mm diameter
Size (mm)	330(h) x 280(w) x 150(d)
Weight	3.62kg per terminal



Version 1.1 Aug 2007

Exicom Technologies Limited. Corner Prosser Street and Mohuia Crescent, Private Bag 50 912, Porirua, Wellington, New Zealand Telephone: +64 4 237 0169, Facsimile: +64 4 237 9696, Email: sales@exicom.co.nz, Website: http://www.exicom.co.nz Note: Exicom Technologies Limited is constantly seeking to improve quality and performance. Therefore specifications, configurations and processes are subject to change without notice.