EXICOM

EX8315 is a full duplex wireless ethernet backhaul communications link providing up to 28Mbps 802.11a ethernet connectivity. EX8315 is a high throughput radio providing uninterrupted data flow in two directions at once. The EX8315 is bandwidth adjusted to meet a variety of capacity, speed, scalability and user needs while optimising frequency usage. The Radio delivers time critical, low latency services and is well suited for streaming video, ISP / VOIP backhaul and private WAN's.

COMPETITIVE ADVANTAGE

- ▶ Ideal for applications requiring fast throughput
- Designed for extreme environmental conditions
- Adjustable bandwidth for capacity
- Speed and scaleability

SUPERIOR FLEXIBILITY

- → Scalable Point-Point operation
- → Configuration flexibility
- Integrated or external antenna
- ▶ High security levels

EX8315

FULL-DUPLEX ETHERNET
POINT-TO-POINT
WIRELESS COMMUNICATIONS SYSTEM

HIGH PERFORMANCE

- ▶ Full Duplex
- Power over ethernet
- ▶ Rugged IP66 outdoor terminal
- ▶ Flexible bandwidth for best range performance
- ▶ Up to 28 Mbps data throughput

LOW COST OF OWNERSHIP

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



Features

- 802.11a connectivity
- Full Duplex operation
- Repeater option for increased range
- 10/100BaseT interconnectivity
- Field stations in weatherproof cabinet
- Low power consumption
- Licence free for 5.8 GHz systems in many countries
- Integrated or external antenna options
- Adjustable bandwidth
- Web and on-site based management utility
- Up to four links can be placed side by side
- Ideal for video transmission, VOIP and ISP backhaul Leased line replacement and private WAN's.

System Parameters

Frequency bands (MHz)

Channel options 5745-5825, 5745-5785, 5765-5805 MHz

RF Channels Up to 14

Selectable Bandwidth 5, 10 and 20Mhz channels

Radio Access Method Direct Sequence

RF output 13 / 27dBm (customer to specify) 65dB adjacent channel rejection **Filtering**

User Data Interface

Air Interface IEEE 802.11a

Data Port/LAN Interface 10/100BaseT Ethernet

Data Rate Up to 28Mbps UDP, 23Mbps TCP in each

direction continuous

Connector RJ-45

Baseband Cable Distance Up to 100 m on 10BaseT Ethernet link

RF Specifications

Transmitter Power +13 dBm adjustable

+27 dBm adjustable (customer to specify)

Duty Cycle 100% at 60°C ambient

Antenna Connector N -Type Female

System ERP 37dBi (13dBm TX+24dBi antenna) Integrated 24dBi or N type connector

Antenna Options

Link Performance

Below is a table of typical receive signal levels in dB required for a given data rate.

RX Level (dB) **Rate Mbps**

-73dBm 28



EX8315 Terminal

Maintenance / Management Data Interface

Command Console Port 10BaseT

Power

Power Supply Voltage

PoE with Surge protection / 18-24 VDC DC Input

Power Consumption

Typical 17W maximum / solar friendly

Environmental

-65°C to +60°C **Operating Temperature Shock and Vibration** Mil 810D

Exposure to Elements IP66, NEMA 4X, all except submerged

Mechanical

Terminal Extruded Fiberglass with neoprene

gasket, NEMA 4X (equal to IP66), rain,

wind and ice protected

Mounting Wall or Pipe / pole 25.4 to 57mm diameter

Size (mm) 330(L) x 260(W) x 150(H)

405(L) x 360(W) x 150(H) integrated ant

Weight 4.7kg per terminal (typical)

Options

- 110/240 VAC for field units
- Full duplex repeater
- Solar power kits



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