

EXICOM

EX 8400 SMART POINT TO MULTIPOINT MULTIHOP, MULTIFREQUENCY, MULTI-PORT RADIO PLATFORM IS DESIGNED WITH THE SAME IDEOLOGY, PERFORMANCE AND QUALITY THAT HAVE MADE EXICOM HAWKS AND CONDOR SUCH A HUGE SUCCESS IN MORE THAN 100 COUNTRIES.

OUR TEAM OF EXPERIENCED ENGINEERS, USING ONLY THE BEST COMPONENTS AND PROCEDURES HAVE DELIVERED ALL THAT IS POSSIBLE IN THE WIRELESS WORLD TODAY. WORKING CLOSELY WITH OUR CUSTOMERS, WE HAVE THOUGHT ABOUT TOMORROWS NEEDS TODAY, AND WE HAVE DELIVERED IN ADDRESSING THE KEY ISSUES OF SECURITY AND SCALABILITY.

THE 8400 PLATFORM IS POWERFUL, INCORPORATING A GREAT DEAL OF HARDWARE AND SOFTWARE FUNCTIONALITY, FOR MAXIMUM PERFORMANCE IN THE REAL WORLD

EX8400-PLATFORM

DIGITAL POINT-TO-MULTIPOINT WIRELESS COMMUNICATIONS SYSTEM

Base, Remote, Repeater Station.
Multihop/Multifrequencies/MultiPorts-
technology.
AES Encryption Standard
Built in robust firewall functions
High system gain for long range
Flexibility of ethernet
Secure digital transmission
Higher Reliability
Local and remote management

Flexible scalable at all levels.
2 x 2 MIMO wireless technology.
COFDM Modulation Type.
Full QoS Support on Voice, Data-
Prioritization or application based .
Built-in routing capability for better-
performance and management.
Fast deployment
Very low power consumption
Low maintenance

Features

- ◆ Point-to-point or point-to multipoint wireless access
- ◆ 2, 4, 8, 16 or 24 FXS line field terminal options
- ◆ Up to 96 lines per network
- ◆ 2 wire POTS FXO and FXS plus Ethernet
- ◆ G723, G729 or G711 voice channel options
- ◆ HD voice (not just toll quality)
- ◆ Full G3 fax and 56 Kbit/s dialup modem support (G711)
- ◆ Dedicated lines – no concentration
- ◆ Smart QOS support for voice
- ◆ 10/100BaseT interconnectivity
- ◆ Range up to 90 Km using TDM and OFDM for Pt-to-Pt
- ◆ Range typically up to 45 Km multipoint
- ◆ MIMO option for difficult radio paths
- ◆ Remote terminals in weatherproof cabinet
- ◆ Weatherproof cabinet option for FXO
- ◆ Low power consumption
- ◆ Licenced bands from 400 to 6.1 GHz
- ◆ Licence free for 2.4/5.8 GHz systems in many countries
- ◆ Space and frequency diversity or protection switch
- ◆ Tower top or tower bottom/indoor/outdoor installation options
- ◆ Separate antenna for ease of installation
- ◆ Extensive central network management system for monitoring and provisioning

System Parameters

Frequency bands (MHz)

400, 500, 700, 900 MHz
1.3, 1.4, 1.5 GHz
2 GHz bands, 3.4, 4.9, 6.1 GHz
2.4 GHz, 5.8 GHz Unlicensed Bands

Modulation Type

BPSK, QPSK, 16QAM, 64QAM dynamic allocation

Radio Access Method

TDM TDD or FDD

Overall Data Throughput

Up to 70 Mbit/s in each direct

Remotes Per Access Point

255

RF Specifications

RX Sensitivity @ 10⁻⁶ BER -93 dBm @ 2 Mbit/s

Depends on channel BW -90 dBm @ 12 Mbit/s

Transmitter Power

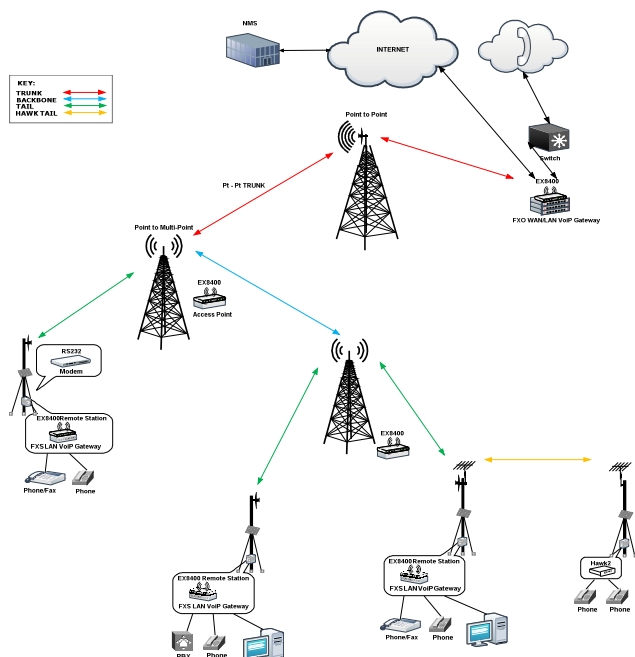
+12 to +23/ +30dBm depending on frequency band

Duty Cycle

100% at 60°C ambient

Antenna Connector

N-Type Female



EX8400 Terminal

Line Interface

Voice Lines

2, 4, 8, 16 or 24 FXS

Interface

2 wire

Voice Coding

64kbps G.711, A or u-Law
G723, G729

Fax/Modem Data

Full Fax and V90 modem support

Impedance

600/900Ω

Line length

Up to 5 Km.

Payphone

12 or 16 KHz options

Ring frequency

Factory programmable, reproduces FXO ringing
3 REN

Ring power

3 REN

Payphone Signalling

12 or 16kHz meter pulse

User Data Interface

Data Port Interface

10/100BaseT Ethernet
RS232, RS485, V.35, X.21

PoE Cable Distance

Up to 100 m

Maintenance / Management Data Interface

Command Console Port

10/100BaseT

MMI

Web based GUI

Power

Power Supply Voltage

Filtered 12 and 24-48VDC, protective ground/earth required

Power Consumption

Exchange/FXO/Base 30-80W depending on RF configuration and number of FXO ports

Subscriber/FXS/Remote

12 – 20W depending on number of ports

Environmental

Operating Temperature

-30°C to +60°C

Humidity (at ambient)

Up to 90% RH, non-condensing

Mechanical

Terminal

Various options including extruded Fiberglass, PVC for 2 channel remote, aluminium with optional heat shield

Mounting

Wall or Pipe/pole

Size (mm)

330(h) x 280(w) x 150(d)

Weight

3.6kg per terminal (typical)

Options

- ◆ 110/240 VAC for field units
- ◆ Full duplex repeater
- ◆ Solar power kits
- ◆ Serial and synchronous data
- ◆ 4 wire to 4 wire line
- ◆ Wifi or DSL remote extension