Features

- 1, 2, 4, 6 or 8 line field terminals ٠
- Maximum of 1024 subscribers
- Integral local and remote system monitoring ٠
- Range up to 96 Km ٠
- Full fax and 56kbps V 90 modem support ٠
- 10BaseT interconnectivity to PC at the field station ٠
- E1 or T1 Central Office Switch interface ٠
- Field stations mounted in NEMA weatherproof cabinet
- Low power consumption
- Licence free 2.4/5.8 GHz systems in many countries
- Sector panel and hi-gain parabolic antenna options ٠
- Separate antenna for ease of installation
- Extensive central management system for monitoring and service provisioning
- Dual power supply in base station
- Supports CLASS features

System Parameters

Frequency bands (MHz)

900 MHz Band 2.4 GHz ISM Band 3 5 GHz Band 5.8 GHz Band

RF Channels

Channel Spacing 900 MHz, 2.4 & 5.8 GHz 3.5 GHz

Modulation Type

Radio Access Method Spreading Codes **Overall Data Throughput**

System Range @2.4 GHz Up to 96 Km @ 256kbps (with 24dBi antenna option, Up to 48 Km @ 512kbps 12 dB fade margin & line of sight interference free

Remote Line Interface Telephone Lines (DS0)

spectrum)

Voice Coding

Impedance

Line current

Ringing Waveform

Ring frequency

Ring voltage

Ring power

Open line voltage Nominal transmit level

Nominal receive level

Frequency response Return loss

Ring detect threshold

Fax/Modem Data

Max DC loop resistance

902 to 928 MHz 2400 to 2483.5 MHz 3400 to 3600 MHz 5725 to 5850 MHz 10 Operating plus one for Administration

12 MHz 1.75/3.5 MHz @ 256/512kbps **Direct Sequence Spread Spectrum**

QPSK CDMA with proprietary Time **Division Duplex** TDMA FDD 4 Auto-selectable Orthoginal codes 512, 384, 256, 128 or 64kbps selectable

64kbps PM, ITU G.711, A or u-Law

selectable, 600Ω typical,

20mA min. to 24mA max.

36V to 48V

300 to 3400Hz

60VAC RMS.

3 REN

Balanced sinusoidal

Factory programable

24-110VRMS, 17-34Hz

24dB

1200 Ω , including instrument

Full G3 Fax and V.90 modem support

(max speed supported is 33.4kbps due to the analogue/digital conversion) Both resistive and reactive are factory

0dBm0, factory programable, -12 to 6dB

-2dBm0, factory programable, -12 to 6dB

1, 2, 4, 6 or 8

Total subscriber capacity 1024 (depending on traffic)



EX8100 19" Rackmount Base Station

Remote Line Interfa	Ce contd
Payphone Signalling	12 or 16kHz meter pulse, typically set fo 200 mA
Payphone Compatibility	Soft loop reversal and optional 12 or 16 kHz signal pulse metering
Regulatory	LSSGR, TR57, ITU Q.552, G.712
User Data Interface	
Data Port Interface	10BaseT Ethernet or V.35 synchronous (other synchronous interfaces available)
Synchronous Data Rate	64-512kbps selectable from configuration GUI
Digital Latency	<4.5mSec end-to-end
Baseband Cable Distance	e Up to 100 m on 10BaseT Ethernet link
RF Specifications	
RX Sensitivity @ 10 ⁻⁶ BEF	
T	-90dBm @ 512kbps
Transmitter Power	-20 to +20dBm, auto set for CDMA operation
Duty Cycle	100% at 60°C ambient
Antenna Connector	N-Type Female
Antenna	Various external antennas
Maximum ERP	45dBi (20dBm TX+25dBi antenna)
PSTN Network Interface	
Interface Options	E1 or T1
Interface	E1
Number of interfaces	4 X E1
Standards supported	G.703, G.704
Frame structure	ITU-T G.711
Bit rate and coding	2048kbps +/-2.5ppm, HDB3
Nominal impedance	75/120Ω balanced
Pulse mask	ITU G.703
Output jitter & tolerance	<0.05 UI, G.823
Permissable attenuation	6dB (1 MHz), >14dB (2.048-3.072 MHz)
Supported Signaling	CAS, V5.1, V5.2
Interface	T1
Number of interfaces	4 X T1
Standard supported	AT&T TR 62411, TR-TSY-000499
Frame structure	Superframe, Extended Superframe
Bit rate and coding	1544kbps +/-2ppm, B8ZS or AMI
Nominal impedance	100Ω balanced
Pulse mask	AT&T TR 62411
Output jitter & tolerance	AT&T TR 62411
Permissible attenuation	6dB (1 MHz), 14dB (1.544-2.048 MHz)
Supported Signalling	Channelised D4 GP 303 TP08

Channelised D4, GR-303, TR08

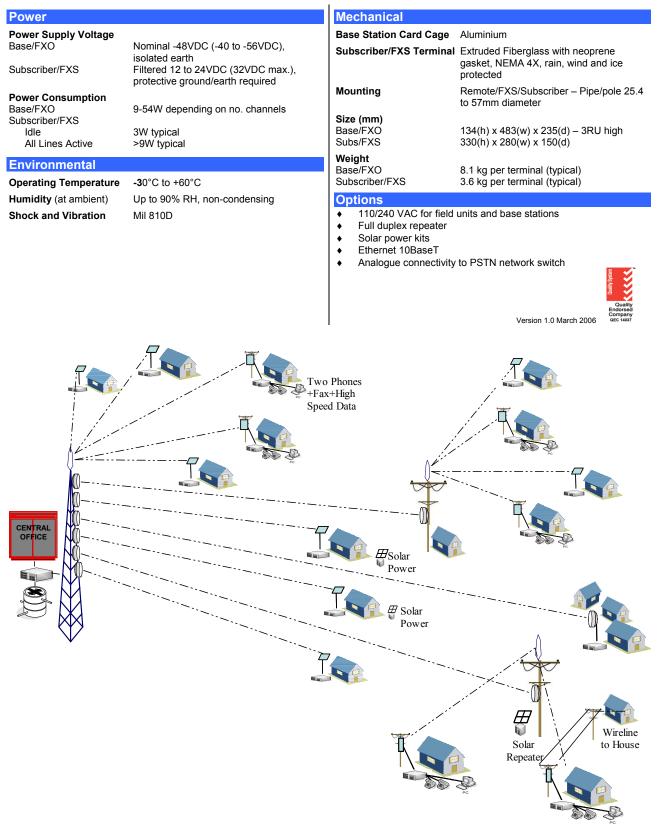
Command Console Port RS232 or 10BaseT

Maintenance Data Interface

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.

Supported Signalling

EX8100 Digital Point-to-Multipoint Radio System



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.