



Point-to-point microwave links distance-engineered for demanding applications

**Aprisa** XE

Rugged and robust

Carrier-class availability

Easy installation and  
maintenance

Long range

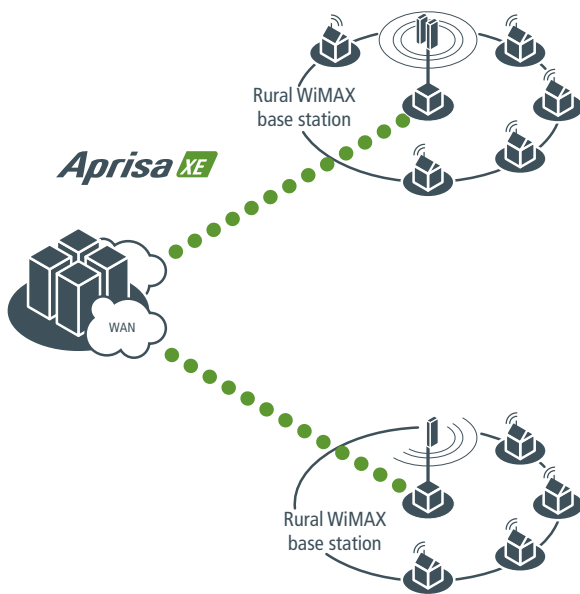
## Long distance backhaul for WiMAX and other fixed wireless access networks

How can WiMAX and other fixed wireless access services be expanded into rural or remote regions without extensive investment in network infrastructure, resulting in an unprofitable business case? The Aprisa XE family of point-to-point radios from 4RF provides a reliable, always on backhaul solution over long distances, effortlessly overcoming the problems of challenging environmental conditions and geographical obstacles. With low latency and support for carrier-class voice, data and IP transmission, quality of service guarantees can be extended to customers, making ubiquitous broadband coverage a profitable reality for operators.



## ADVANCED POINT-TO-POINT WIRELESS SOLUTIONS

The Aprisa XE provides a flexible range of interfaces to backhaul all required voice, data and IP services offered by a WiMAX or proprietary fixed wireless access network. It is easily deployed and managed via SNMP, supporting a rapid rollout of fixed wireless broadband coverage. The Aprisa XE, with its high capacity and long distance capability, is perfect as a replacement for expensive leased lines. Its low total cost of ownership, minimising capital expenditure and virtually eliminating operational expenditure, makes a highly compelling business case.



SPECIFICATION	APRISA XE
Frequency bands	300 MHz – 2700 MHz (licensed bands)
Modulation	Software configurable from QPSK to 128 QAM
Capacity	72 kbit/s – 65 Mbit/s
Channel sizes	From 25 kHz to 14 MHz (band-dependent)
Interfaces (supported by digital cross connect)	E1 / T1 framed and unframed 2-Wire FXO / FXS 4-Wire E&M V.24 synchronous, asynchronous, over sampling High-speed synchronous X.21 / V.35 / RS-449 / RS-530 10 / 100Base-T Ethernet
Management	Element: Embedded web-based SuperVisor software Network: Any SNMP-compliant NMS platform

## Why the Aprisa XE ?

- **High capacity** – with up to 65 Mbit/s throughput, the Aprisa XE has sufficient capacity to backhaul even bandwidth-intensive applications, with its low latency making it ideal for voice services as well as data and IP services. The Aprisa XE can also be used to backhaul traffic from mobile cellular networks and remote DSLAMs.
- **Long range** – with the Aprisa XE's ability to cover extremely long distances, up to 250 km (155 miles) with a single link, operators can make a profitable business case for providing services even to rural or remote communities.
- **Carrier-class availability range** – the Aprisa XE provides 99.999% performance using licensed frequency bands, enabling operators to deliver always-on wireless broadband, offering quality of service guarantees to even the most remote customers, minimising network downtime and maximising customer satisfaction.
- **Easy installation and maintenance** – the Aprisa XE can be rapidly deployed to ensure a fast rollout of broadband services to even rural and remote communities. A network of Aprisa XE links can be easily managed alongside existing network infrastructure, with its SNMP based network management.

### ABOUT 4RF

Operating in more than 130 countries, 4RF provides radio communications equipment for critical infrastructure applications. Customers include utilities, oil and gas companies, transport companies, telecommunications operators, international aid organisations, public safety, military and security organisations. 4RF point-to-point and point-to-multipoint products are optimized for performance in harsh climates and difficult terrain, supporting IP, legacy analogue, serial data and PDH applications.

Copyright © 2012 4RF Limited. All rights reserved. This document is protected by copyright belonging to 4RF Limited and may not be reproduced or republished in whole or part in any form without the prior written consent of 4RF Limited. While every precaution has been taken in the preparation of this literature, 4RF Limited assumes no liability for errors or omissions, or from any damages resulting from the use of this information. The contents and product specifications within it are subject to revision due to ongoing product improvements and may change without notice. Aprisa and the 4RF logo are trademarks of 4RF Limited. Version 1.3.0



TELEPHONE +64 4 499 6000

FACSIMILE +64 4 473 4447

EMAIL sales@4rf.com

URL www.4rf.com