



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

Aprisa™ XE

High capacity

Carrier-class availability

Easy installation and
maintenance

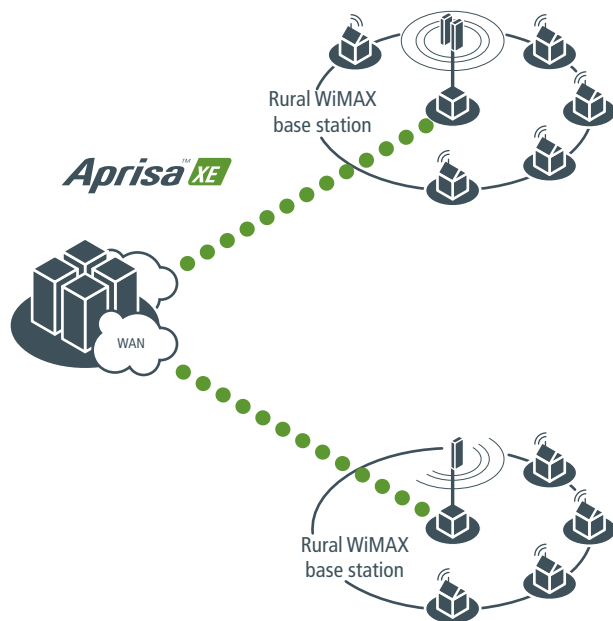
Long range

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.



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 / RS-232 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** – 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 COMMUNICATIONS

Operating in more than 100 countries, 4RF solutions are deployed by telecommunications operators, broadcasters, transport and utilities companies, oil and gas companies, international aid organisations, and public safety, military and security organisations. All 4RF products are optimised for performance in harsh climates and difficult terrain, and support legacy analogue, serial data, PDH and IP applications.