



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

**Aprisa** XE

Long range

Cost-effective

Carrier-class availability

Rugged and robust

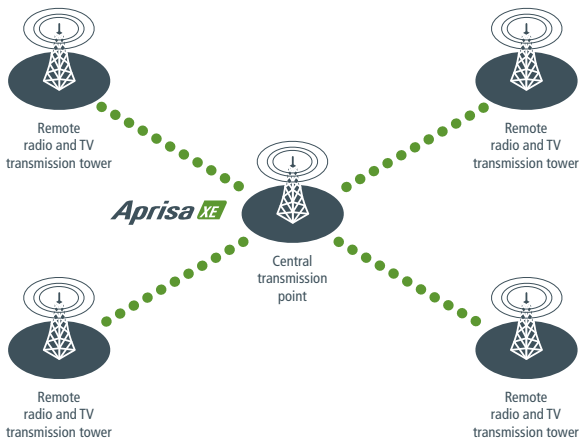
## Radio and television coverage extension to rural and remote areas

How can radio and television coverage be extended into rural or previously unserved regions without extensive investment in real estate and repeater equipment, resulting in an unprofitable business case? The Aprisa XE family of point-to-point radios from 4RF provides a reliable, robust long distance connection to new transmission towers, even over difficult terrains or challenging environmental conditions. This enables network coverage to be easily and cost-effectively extended, bypassing or replacing existing infrastructure and minimising equipment spend.



## ADVANCED POINT-TO-POINT WIRELESS SOLUTIONS

The Aprisa XE supports long range connections, enabling broadcast coverage to be provided directly to even the most remote areas without having to invest in an expensive network of repeaters and acquisition of towers and other real estate. A flexible range of interfaces supports the transmission of analogue, digital and IP services as required, with the required interfaces managed through the Aprisa XE's modular multi-service multiplexer. The Aprisa XE is easily installed and managed for seamless operation with the rest of the network, integrating with third party DVB and DAB CODEC equipment as needed, and can be easily redeployed if required.



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 ?

- **Long range** – with the Aprisa XE's ability to cover extremely long distances – up to 250 km (155 miles) with a single link – services can be provided to even the most remote areas without building complex transmission networks. The Aprisa XE has been distance engineered to cope with even the most challenging conditions, such as links over water or round topological obstacles.
- **Carrier-class availability** – with its use of low frequency licensed spectrum bands, the Aprisa XE is interference-free, providing a reliable, always-on connection to even the most remote transmission towers.
- **Cost-effective** – with a low total cost of ownership and a rapid return on investment, the Aprisa XE makes perfect business sense, minimising capital expenditure and virtually eliminating operational expenses.
- **Rugged and robust** – the Aprisa XE, with its rugged enclosures and industry-leading reliability, has been designed to operate even in the harshest of environments, ideal for the exposed, densely packed metal structures of transmission towers.

### 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.

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