



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

Aprisa™ XE

Long range

Cost-effective

Carrier-class availability

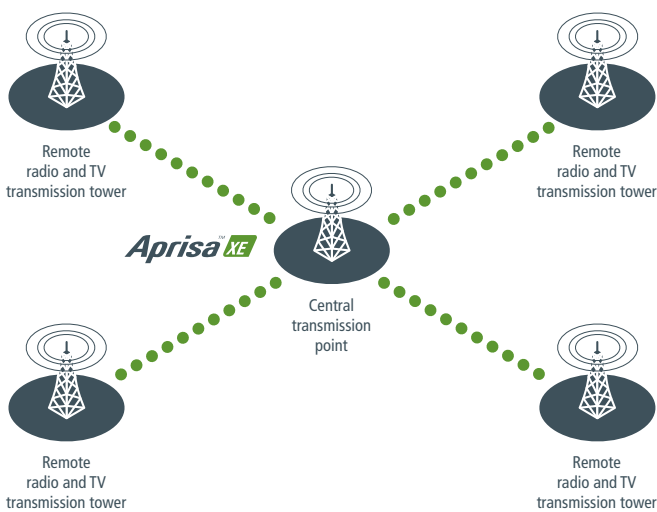
Rugged and robust

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.



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 / 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 ?

- **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 COMMUNICATIONS

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