

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

**Aprisa™ XE**

Reliable

Carrier-class availability

Cost-effective

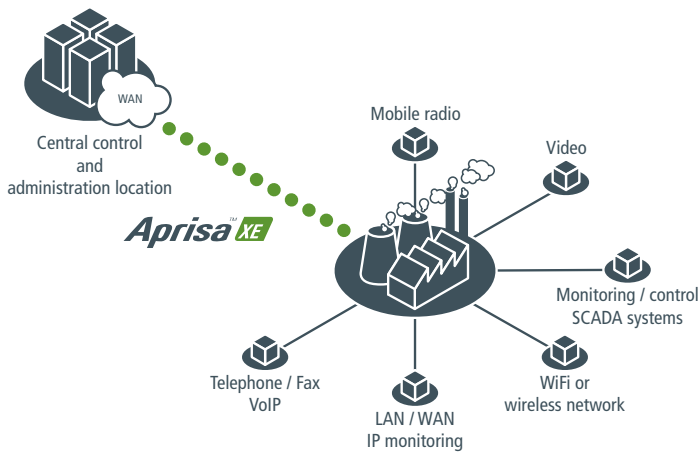
Flexible interfaces

## Wireless monitoring, control and communications for utility companies

With electric, gas and water companies needing mission-critical data and voice transmission between control centres and utility assets, the network cannot compromise on safety or efficiency. Reliable communications infrastructure is essential for a range of applications including remote monitoring and control, video surveillance and basic email and broadband Internet access. The Aprisa XE family of point-to-point radio links from 4RF provides the perfect replacement for outdated analogue systems, excelling in today's IP-based applications while also supporting all data and voice requirements.



The Aprisa XE supports a flexible range of interfaces for carrier-class, mission-critical connectivity between control centres and utility plant and infrastructure. The Aprisa XE can establish links over difficult terrain and long distances, often greatly exceeding 100 km (60 miles). The Aprisa XE is easy to deploy and integrate with existing infrastructure, providing complete support for voice, data and IP traffic, including SCADA, teleprotection, telephone, mobile radio, LAN, VoIP and video, including V.24 / RS-232. Its reliability, high capacity and low total cost of ownership means that the Aprisa XE outperforms satellite links, fixed infrastructure and high frequency microwave links.



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 ?

- **Reliable** – with industry-leading reliability, even over long distances, challenging terrain or adverse weather conditions, the Aprisa XE provides an efficient communications solution for relaying critical information throughout utility networks.
- **Carrier-class availability** – providing always-on, 99.999% availability, high capacity and significant latency improvements over satellite, the Aprisa XE provides the quality of service required for mission-critical demanding applications such as real-time monitoring and control of remote sites.
- **Cost-effective** – financially out-performing satellite and high frequency microwave communications, the Aprisa XE enables utility companies to optimise capital expenditure and virtually eliminate operational expenditure.
- **Flexible interfaces** – with support for all types of traffic, the Aprisa XE efficiently aggregates and transports a mix of voice, data and IP traffic, easily integrating any legacy requirements with its modularly constructed multiplexer supporting easy selection of the required interfaces.

### ABOUT 4RF COMMUNICATIONS

Operating in more than 100 countries, 4RF solutions are deployed by utilities and transport companies, oil and gas companies, telecommunications operators, broadcasters, 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.