

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

Aprisa™ XE

Reliable

Long range

Easy installation and
maintenance

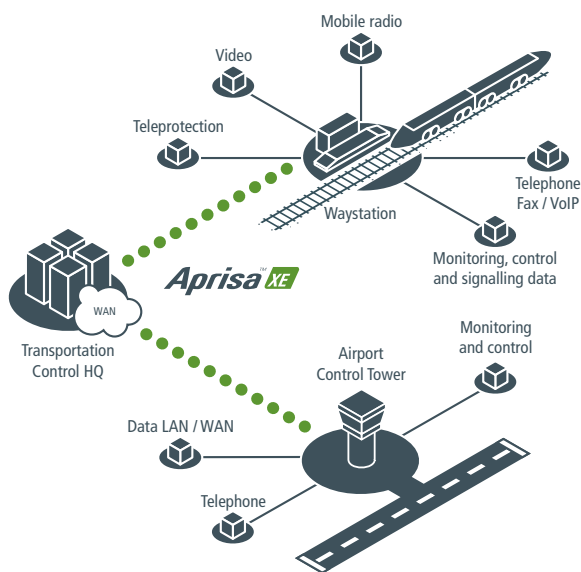
Flexible interfaces

Wireless signalling, communication and control networks for transport

Reliable and safe real-time, wide area voice and data communications are essential for the smooth day-to-day operations of all types of transport networks, whether road, rail, air or maritime. Incorporating signalling, control and ticketing data, backhaul of private radio networks, and basic telephony and Internet access, the applications of transport operators are many and varied, often over long distances and challenging terrains. The Aprisa XE family of point-to-point radio links from 4RF provides unrivalled flexibility and simultaneous support for all required data, voice and IP applications, cost-effectively ensuring the availability of every link the network requires, however challenging.



An Aprisa XE point-to-point microwave link provides a flexible range of analogue and digital interfaces for high quality, real-time connectivity throughout transport networks, however large and busy. The Aprisa XE supports all types of voice, data and IP-based applications, including telephony, teleprotection, PBX, mobile radio, video and LAN. The Aprisa XE significantly outperforms satellite links, fixed infrastructure or high frequency microwave links, eliminating dependence on third party telecommunications operators and ensuring a low total cost of ownership. Whether used as a primary link or for redundancy purposes, its use of licensed frequencies ensures that operation is interference-free.



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** – the Aprisa XE can be depended upon to make the required link, overcoming any problems presented by challenging terrain or adverse weather conditions. A monitored hot standby option means that a completely protected link can be configured if required.
- **Easy installation and maintenance** – the Aprisa XE is quickly integrated with existing network equipment and its small form factor means it can rapidly be redeployed as needed. Links are easily managed with the Aprisa XE's SNMP-based management application.
- **Long range** – with support for long distance links, with a single link often greatly exceeding 100 km (60 miles), the Aprisa XE is cost-effective and easy to deploy throughout transport networks, particularly where the infrastructure is distributed over a wide area, or in rural or remote environments, such as a network of hundreds of rail stations spread over thousands of kilometres of track.
- **Flexible interfaces** – with support for all types of traffic using its built-in multiplexer and cross connect, the Aprisa XE efficiently aggregates and transports a mix of voice, data and IP traffic, easily integrating any legacy requirements.

ABOUT 4RF COMMUNICATIONS

Operating in more than 100 countries, 4RF solutions are deployed by transport and utilities 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.