



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

**Aprisa™ XE**

Rugged and robust

Carrier-class availability

Long range

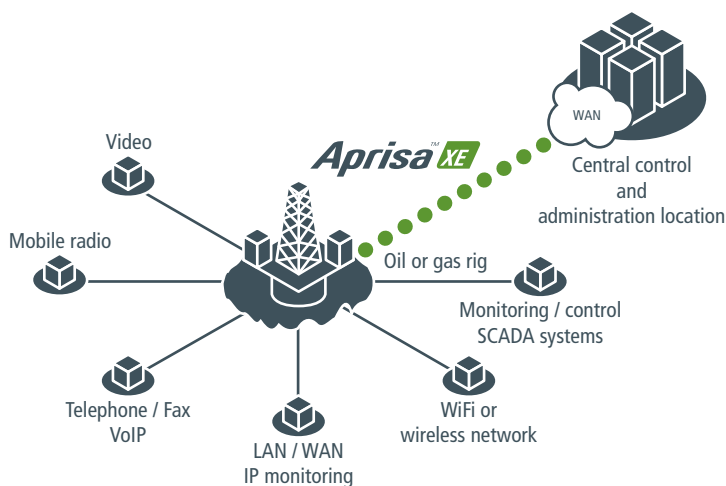
Cost-effective

## Wireless monitoring and control for oil and gas field installations

Increasing bandwidth requirements for control and monitoring applications, highly stringent regulatory and insurance compliance requirements, the growing use of unmanned remote platforms... all these issues present oil, gas and mining companies with a complex communications challenge. Add to this the need to take into account large metallic structures many miles offshore, often over the horizon, highly variable atmospheric conditions and inhospitable locations, with the need for mission-critical support, and it is clear that the chosen communications products need to be very special. Enter the Aprisa XE family of point-to-point radio links from 4RF, the perfect cost-effective, low latency, secure alternative to satellite links.



The Aprisa XE supports all types of bandwidth-hungry applications for oil, gas and mining companies, including remote surveillance and security, real-time asset monitoring and control, transfer of geological data and broadband web, email and voice services. It provides a flexible range of legacy and IP interfaces for carrier-class, mission-critical connectivity between head office and remote locations, outperforming satellite links on every level. Operating over distances of up to 250 km (155 miles), the Aprisa XE is ideal for use in adverse weather conditions over water or land, whether as a primary lifeline or a redundant link for oil, gas and mining companies.



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 ?

- **Rugged and robust** – the Aprisa XE, with its rugged enclosures, ease of install, and industry-leading reliability, has been designed to operate in the harshest of environments, ideal for the exposed, densely packed, metal structures of remote oil and gas fields.
- **Carrier-class availability** – with an always-on, 99.999% availability, significant latency improvements over satellite, and built-in data security, the Aprisa XE provides the quality of service required for mission-critical demanding applications such as real-time monitoring and control of unmanned platforms.
- **Long range** – with support for long-distance challenging links, often offshore over the horizon, the Aprisa XE is ideal for remote environments, eliminating the need for additional infrastructure such as repeater stations.
- **Cost-effective** – the Aprisa XE supports a wide variety of offshore applications, optimising capital expenditure, virtually eliminating operational expenditure and financially outperforming satellite communications for a low total cost of ownership.

### ABOUT 4RF COMMUNICATIONS

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