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CE

ViaLite in Satellite Communication



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RF over fiber technology

In teleports and satellite ground stations, RF over fiber links are a superior alternative to copper coax for the inter-facility links needed to transport RF between the antennas and control rooms.

- Longer distances links up to 600km
- Lightning protection
- Secure medium cannot be tapped
- High dynamic range
- Simple to use (no extensive product training required)
- LNA/LNB power feeds
- LAN extensions
- Equipment control
- Reference signals

In many locations site expansion has pushed conventional copper coax to its operational limit, resulting in signal attenuation, signal degradation and the requirement for costly amplifiers.



Any signal format

Direct intensity modulation means the RF signal is transferred between the electrical to the optical domain without frequency conversion or digitization. This results in very low noise and low distortion and means that almost any modulation format can be supported.

- Exceptionally low phase noise performance suitable for narrowband schemes
- · Used for uplinks and downlinks
- The ViaLite L-band link covers 700-2450MHz
- IF band covers 70/140MHz

Redundancy

ViaLite switch and splitter modules mean a system can be fitted with full redundancy if required.

All ViaLiteHD 19" racks are fitted with dual power supplies to ensure reliability of power.

Link Distances

- Standard links for 10km
- Long haul links for up to 600km

Multiplexing

To minimise fiber count *ViaLite* CWDM and DWDM technology allows multiple signals to be transported over a single fiber.



ViaLite ODE range of weatherproof outdoor enclosures

- of each module via SNMP)
- each module are used to determine gain settings

means ViaLite links offer superb performance over a wide range procedures.







