



Time and frequency signal distribution

ViaLite RF over fiber links are used to transport timing, reference and communication signals from remote antennas. The very low signal losses of optical fiber means links can be much longer than traditional coaxial cable links, and the transparent nature of fiber links means any signal format below 7.5 GHz can be used. Typical applications include mining, public safety, rail/subways and data centers.



ViaLite Communications is proud to supply RF over fiber technology for timing applications to many distinguished companies.



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Time and frequency signal distribution over optical fiber

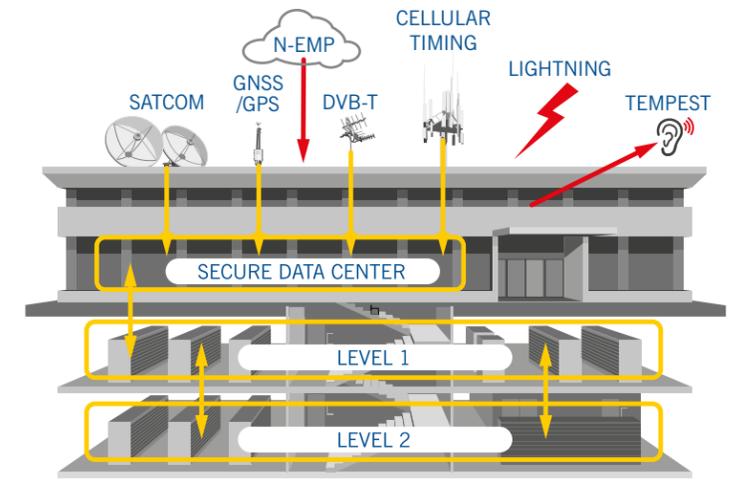
Antenna remoting for timing distribution

RF over fiber links can extend communication networks in demanding and harsh environments to ensure effective RF signal distribution between surface and underground operations.

GNSS/GPS EXTERNAL ANTENNA

GNSS/GPS HEAD-END

ViaLiteHD modules can also be integrated into other equipment



Secure communication links – Network Data Center

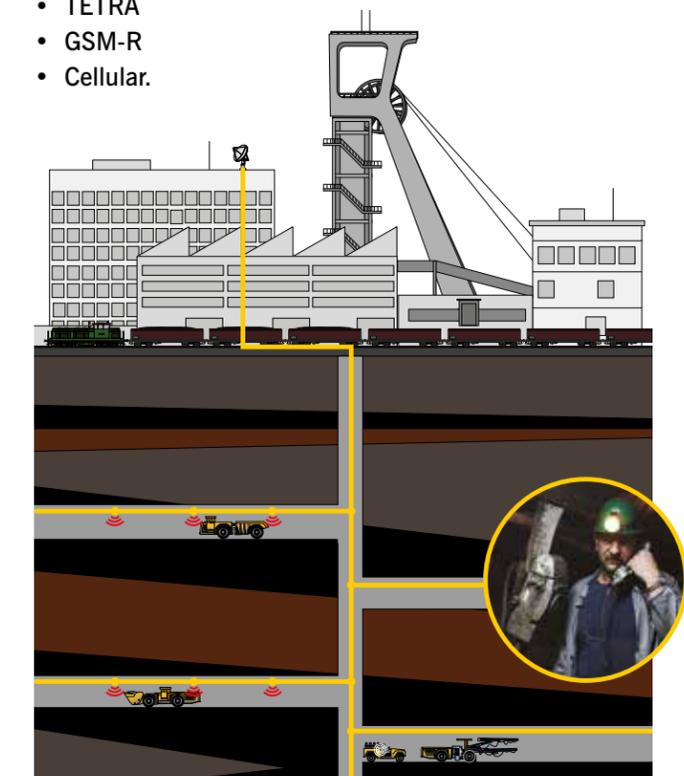
ViaLite works with government, defense and corporate clients to enhance data security and operation integrity using RF over fiber equipment for timing and synchronization. The ViaLite GPS link also enables financial institutions and data centers to comply with the MiFID II standard.

ViaLite products are used for the delivery of services such as GNSS/GPS, MSF, time signals, digital TV, VHF/UHF radio, cellular and satellite. The use of optical fiber provides added protection against lighting and EMP strikes as well as preventing attempts to eavesdrop or the corruption of critical data.

ViaLite in mines and tunnels

In addition to timing distribution, ViaLite links are used extensively in mines, road and railway tunnels to support cellular communication technologies such as:

- Private Mobile Radio (PMR)
- UHF/VHF radio and TV
- TETRA
- GSM-R
- Cellular.



In-building GNSS/GPS

For GNSS/GPS timing distribution the ViaLite GPS fiber optic link is a reliable yet simple method for transporting GNSS/GPS signals from antenna to receiver in situations where these two points are far apart or inaccessible. ViaLite RF over fiber links offer a cost effective alternative to conventional coax-cable systems for synchronizing digital communication systems to GNSS/GPS derived timing signals.



ViaLite Local & Multizone Lossless Splitters



ViaLite Splitter



ViaLite 1U Rack

Typical Markets	Typical Applications
Defense	Government secure networks
MoD	Military GNSS/GPS sync. & mapping
Communications	Cellular BTS timing in tunnels
Industry	Communication network synchronization
Exploration, geodesy, seismology	Meteorological station
Indoor test environment	Equipment test & development, R&D
Mining & tunnels	GNSS/GPS re-radiators
Public safety & security	TETRA, GPS mapping & location

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