



Point-to-point wireless communication system **farLink**

The best way to transmit your data over long distances



farLink is a modern generation of UHF/VHF point-to-point wireless communication system. It provides TDM and Ethernet data transmitting over incredible long-range distances.

Previously one could establish a connection to the mainland only through the expensive satellites.

Now the connectivity becomes much more affordable thanks to **farLink**.



UP TO 100 KM BY ONE HOP

farLink provides effective **operation even in non-line-of-sight (NLOS)** due to UHF/VHF frequency bands and a **high output power**. More than that, every **farLink** has modem and radio unit designed inside the outdoor unit. This combination eliminates cable signal attenuation and keeps the real system gain value at extremely high level.

OFDM

farLink provides irreducible power and system permanence due to **OFDM technology**. This gives reliable and stable communication.

OPEX AND CAPEX SAVING

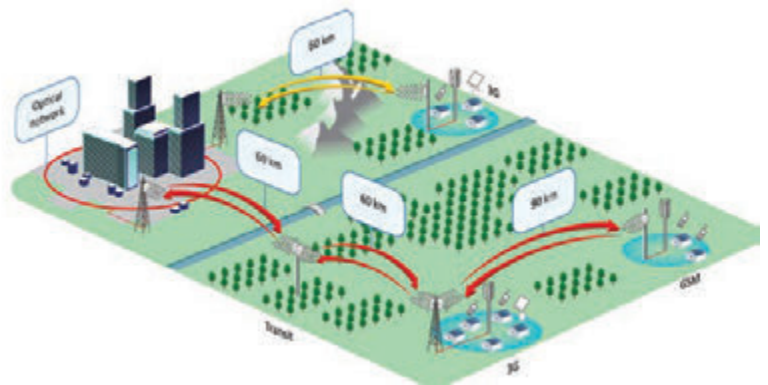
Full outdoor configuration of **farLink** and **antennas with low wind profile** require small site preparation and reduce capital and operational costs.

FREQUENCY SCANNING

farLink detects interference in spectrum and provides user the cleanest bandwidth in accessible frequency range.

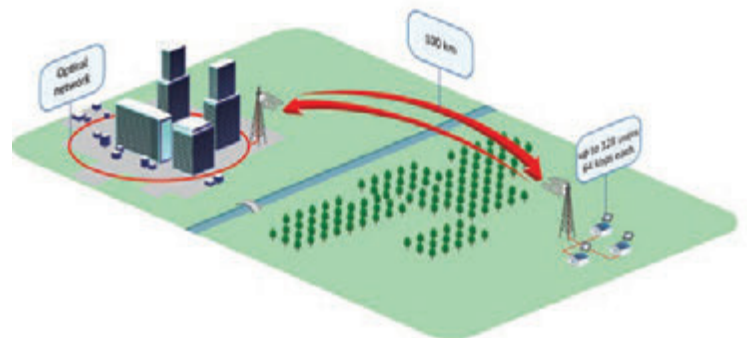
Rural mobile backhaul in 2G & 3G networks

- Traffic transfer from the base stations GSM and 3G
- NLOS and nLOS traffic transfer
- Ethernet and TDM traffic transfer on one channel



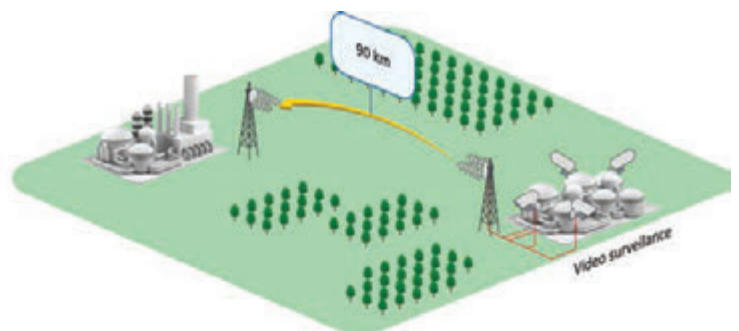
Rural backhaul for fixed telecom and ISP providers

- Up to 30 Mbps capacity
- Web-control and software Master management



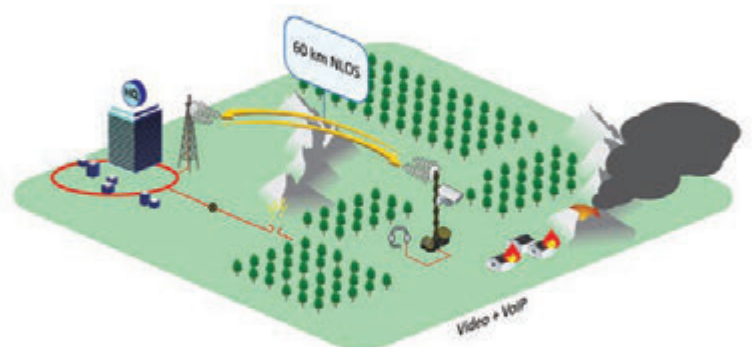
Remote video surveillance

- Up to eight high definition cameras connection
- Video channel high reliability
- Two-way video with minimal delay



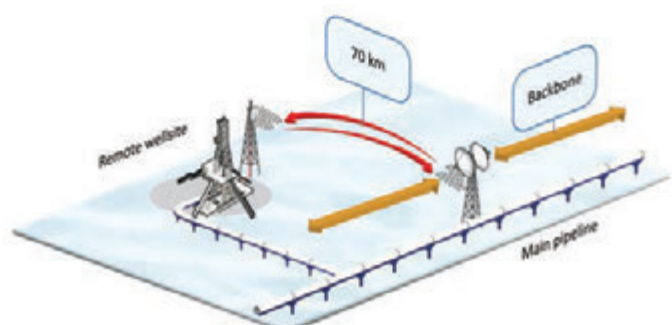
Temporary communications

- Easy installation on the mobile platform
- Robust communication in heavy industrial noise



Smart grid and corporate transport networks

- Reliable transmitting of telemetry, Ethernet and voice
- Connection of remote production platforms, shrubs, stations to the common control system



farLink specifications

Equipment type	farLink-450		farLink-350	
Frequency range	430-480 MHz		310-360 MHz	
Duplex	TDD			
Equipment configuration	Full-outdoor			
Channel bandwidth	1.5 MHz, 3 MHz, 6 MHz, 12 MHz		1.5 MHz, 3 MHz, 6 MHz, 12 MHz	
Modulation	OFDM BPSK/QPSK/16QAM/64QAM etc Adaptive modulation coding			
Output power	33 dBm			
Receiver sensitivity BPSK/QPSK/16/64QAM (BER=10 ⁻⁶)	1.5 MHz	-100/-97/-91/-85 dBm	-100/-97/-91/-85 dBm	
	3 MHz	-97/-94/-88/-82 dBm	-97/-94/-88/-82 dBm	
	6 MHz	-94/-91/-85/-79 dBm	-94/-91/-85/-79 dBm	
	12 MHz	-91/-88/-82/-76 dBm	-91/-88/-82/-76 dBm	
Capacity at modulation BPSK/QPSK/16/64QAM (BER=10 ⁻⁶)	1.5 MHz	up to 3.6 Mbps	up to 3.6 Mbps	
	3 MHz	up to 7.2 Mbps	up to 7.2 Mbps	
	6 MHz	up to 14.5 Mbps	up to 14.5 Mbps	
	12 MHz	up to 29 Mbps	up to 29 Mbps	
Bandwidth allocation	Symmetric or asymmetric uplink/downlink: from 12.5/87.5 to 87.5/12.5			
Interface	Ethernet			
Network management system	Web-interface NMS Master ME SNMP v1/v2/v3			
Antennas	2 dB (omni) 14 dB (LPA, vertical and horizontal polarization) 17 dB (x-antenna)			
Temperature range	-30...+60 °C + 70 °C (optional)			

MICRAN

Micran is a leading microwave telecommunication and measurement equipment manufacturer in Russia and CIS. It was founded in 1991 and has gained a reputation as a reliable partner in many fields. The company offers a wide range of wireless solutions for telecommunication networks to telecom operators, service providers, fuel and energy enterprises, railway and river transport companies, federal executive authorities, and integrators.

Micran has successfully deployed microwave links throughout Russia, CIS and Asian countries and supports the operation and maintenance of the equipment quickly and effectively.



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