



Tactical LOS Communication Solution

For bringing high capacity link connectivity to the battlefield, high capacity line of sight systems can be used as a solution for wireless broadband radio links. For this purpose, mobile tactical communication has been designed where it is the perfect solution for LOS radio links. This solution is a truck (same as TOYOTA Hilux) which is equipped with a canopy and different communication/electronic systems and used for transmitting/relaying various voice and data information as the E1 standard. Main responsibility of the solution is to transmit/receive various information including the E1 lines (optical/electrical), PSTN lines, Field telephone lines, data lines, and ... via a 15GHz LOS radio link up to 30Km distance. In addition to maximum 16E1 capacity of the radio, it transmits the Ethernet data directly and configures it via the LAN. The radio is equipped with network management capability and supports the SNMP Ver.3. This solution can be operated in all operational areas and is a proper substitution of ground-based links in different zones.

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General Specifications

Transportable radio relay in frequency band of 5/15GHz

60/90/120 cm antenna with adjustable horizontally/vertically from the vehicle's indoor

Type of the vehicle.....Double-cabin TOYOTA Hilux

Supply of the solution.....Remoke diesel generator

16E1 transmittable traffic.....electrical/optical, various types of voice/data, and Ethernet

Radio Specifications

Frequency band.....4.4-5/14.4-15 GHz

Power of the transmitter.....about 25dBm

Engaged bandwidth.....28MHz (16E1)

Capacity.....up to 16E1

Specifications of the MUX

Capacity.....4E1

Analogue input traffic.....FXS, FXO, Hot Line, ...

Digital input traffic.....RS-232, Ethernet, ...

Output traffic.....E1, optical, electrical