ML2.4 SHF SPREAD SPECTRUM LINK

Transmission of encrypted voice, data
and remote control commands over secure spread spectrum channels

Features:

- High mobility
- Independent operation
- Eavesdrop-proof transmissions
- High immunity against jamming
- Spread spectrum transmission mode
- Complicated site localisation using direction finding
- Spread spectrum transmission mode
- High transmission security through error correction and protocols
- Ciphering for the protection of voice, data and commands
- Operating modes semi-duplex or full-duplex
- Economical and robust alternative to line-connected communication systems
- Lower operating costs relative to conventional approaches
- Easy to operate even by untrained personnel
- Standard handset connection
- Data via RS-232 / USB / Ethernet
- Command I/O via potential-free contacts
- Battery operation with integrated charger
- Ruggedised watertight version according to MIL-STD-810E

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The ML2.4 Spread Spectrum SHF Link can be used wherever a secure voice and data radio link must be simply and quickly set up. This is mainly for tactical deployment involving authorities and security personnel or for relief organisations in disaster situations as well as for the military.

In addition, the ML2.4 Spread Spectrum SHF Link also serves to provide temporary transmission connections between buildings not having telecommunication systems. An example here would be banks where their local networks would be connected using these radio links.

The use of ciphering technology having an exceptionally high security guarantees protection of confidential information. Attacks of a passive or active nature are not possible with presently known methods of analysis. This is guaranteed not only by the ciphering, but also by a proprietary authentication mechanism. Moreover, implementation of DSS spread spectrum techniques not only provides high security against collisions, but also significantly complicates attacks using jamming and direction finding technology. The result is extremely high protection against unauthorised eavesdropping.

Operation can be done by largely untrained personnel. Power is derived from the built-in accumulator or from an external 12V supply derived from solar cells, batteries or the mains.

Temporary Radio Link

Point-to-point radio communication under harsh conditions