TACTICAL BROADBAND RADIO

KONGSBERG

UM600
Tactical Broadband Radio

- Broadband wireless communications within headquarters / command posts, between combat vehicles and access to tactical core networks.

- Supports long-range C5I communication for sensor systems and between higher and lower echelons.

- Brings the principles of Network Centric Warfare to the lowest level in the organization.

- Provides seamless extension of the wired LAN as to provide connectivity between C5I applications even when on the move.

- Operates with different RF bandwidths, either 5 MHz (default) or 2.5 MHz.

- Provides reliable instantaneous data rates up to 900 kbit/s, as well as directional- and omnidirectional antennas for optimized use in different applications.

- Ad-hoc functionality for fast and easy establishment of networks. Multi-hop functionality is supported.

- Operates without any master in the network

- Operates in two different modes, either high data rate MANET mode or multi-service support mode which combines voice and data.

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- The wide range of functions is supported by a flexible and simple management system. Secure console and web-based management is supported as well as SNMP.

FEATURES

- Broadband wireless networking between combat vehicles
- Advanced networking features
- Fully IP based
- Embedded AES256 encryption
- Flexibility in nework capacity versus RF bandwidth
- 900 kbit/s
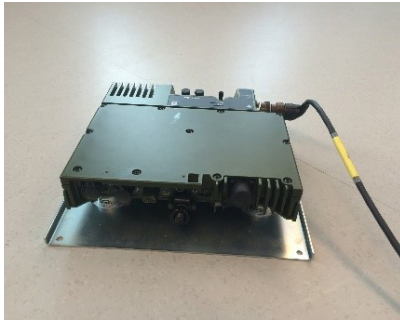
UM600 as vehicle mounted

SR600 is a fully compatible
soldier version of the UM600

Communication in field

Network Services

The UM600 provides an Ethernet interface with DHCP server capability to the local LAN of the vehicle. IP-based routing is provided within the network as well as towards external networks. Multicast and unicast services are supported.

Management is web- or SNMP based. Protected encryption keys can be loaded via Ethernet interface.

Radio Features

The UM600 operates in the 225 to 400 MHz UHF band to provide a good balance between range in non-LOS terrain, data rate and RF power output. The radio has a selectable RF output, from 100 mW to 5 W.

The radio can provide different network capacities based on selected RF bandwidth and coding.

TECHNICAL DATA

Protocols	IP version: IPv4
	LAN protocols: Ethernet
Services	Network service: DHCP
	External networks:OSPF/RIP routing
	Multi hop capability
Management	Web (https)
	SNMP
Interfaces	LAN: Ethernet 10/100BASE-T/TX
	Dual analogue audio interface
RF Characteristics	Frequency range: 225 – 400 MHz
	RF Bandwidth: 2.5 MHz and 5 MHz
	Output Power: 100 mW to 5 W
Network Capacity	Up to 900 kbit/s instantaneous
Environmental	Operating temp.: -40°C to +55°C
	Environmental: MIL-STD 810 army ground
	EMC: MIL-STD 461 army ground
Dimensions	Height: 88,5 mm
	Width: 246 mm
	Depth: 255 mm
	Weight: 3,5 kg