KONGSBERG

FEATURES

- Intercom for both voice and data
- 3 users
- 3 radios
- 3 Ethernet interfaces
- Low latency
- Meshed power- and data distribution
- No centralized unit
- No separate power unit

EIS Ethernet based Intercom System

Advanced Intercom for voice and data

The EIS is a new design based on novel technology in support of user requirements scaling from field vehicles through infantry fighting vehicles, complex staff vehicles, shelters and main battle tanks.

Scalability is ensured by using one single unit to build all system configurations – the User Interface Unit (UIU). Each UIU can connect three analogue users, loudspeaker or radios as well as three Ethernet devices (terminals, sensors, radios) at the same time. The analogue interfaces are configurable to interface a range of legacy- and new radios as well as headsets/loudspeakers.

The UIUs are inter-connected via one of three infrastructure ports. The concept provides Ethernet and power across all links allowing star, ring and mesh configurations for maximum resilience. Not all UIUs need a power source – power is intelligently distributed between UIUs and automatically restored in case of breaks or short circuits. Combined with fast boot, the system recovers quickly from emergency situations at the platform.

Many vehicles/platforms can be connected together to quickly form command posts and even headquarters. A high number of total radio- and user conferences is supported. Any UIU can be configured as an access router to an external network providing a gateway for command post or similar. Radio rebroadcasting is available.

Accepting Power over Ethernet (PoE), the UIU may easily serve as a connection point for three users/terminals/radios to a command post infrastructure. Auxiliary DC power is available at each user interface to support customer furnished devices or future expansions.

User friendly and future proof

Varieties of analogue devices as well as Ethernet based users are supported.

Both full duplex and half-duplex intercom conferences are available. Excellent voice quality is ensured by using the uncompressed PCM64 voice codec.

Auxiliary DC power is provided towards users to support PTT, ANR headsets, loudspeaker and future needs.

Automatic detection of radio types, headset or individual users is possible, which allows fast and simple configuration.

Only one logistic item. No centralized unit. No single point of failure.

Field vehicles

Command posts

Weapon Systems

Naval Systems

TECHNICAL DATA

Interfaces	3 Ethernet 1 Gbits/s (Network) 3 Ethernet 100 Mbits/s (User) 3 analogue headset/radio
Protocols	IPv4 and IPv6 (dual stack) LAN protocols Ethernet OSPFv2/RIPv2 routing
Functions	DHCP Client Rapid recovery protocol
Management	Web
Power Supply	18 – 32 VDC MIL-STD 1275 PoE Power over Ethernet Meshed power solution Auxiliary power output 5 - 24 VDC 15 W power consumption
Environmental	Operating temp.: -35°C to +55°C Environmental: MIL-STD-810 army ground EMC: MIL-STD 461 army Ground
Dimensions	Height: 50 mm Width: 166 mm Depth: 169 mm Weight: 0,9 kg

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