SyTech R-TDIS

Tactical Digital Intercom System

INTERCOM: Among multiple crew stations within a vehicle.

CONNECT: On-board radio resources for communications via HF, VHF, UHF and other waveforms.

TRANSMIT: To dismounted forces and command personnel via radio communications.

SECURE: Wireless communications with DISA approved, JITC certified wireless technology.

MONITOR: Multiple radio resources with the ability to isolate left and right speakers.

CONFIGURE: With detachable Windows computer for specific mission plans and permissions.

PATCH: Between non-compatible radio frequencies with radio nets.

R-TDIS Distribution System (DS)

R-TDIS Crew Stations

Secure Wireless R-TDIS Handset

The SyTech Tactical Digital Intercom System (R-TDIS) provides in-vehicle voice connectivity among crew members while offering tactical radio communications to dismounted forces and command personnel. Available for maritime or land-based vehicular environments, the SyTech R-TDIS utilizes a modular design featuring two key components: the R-TDIS Crew Station (CS) and the R-TDIS Distribution System (DS) with IP network capability for MANET and other wireless configurations.

The R-TDIS Distribution System functions as the primary interface for the R-TDIS Crew Stations and connected radio resources. R-TDIS DS allows for up to eight (8) radio system interfaces operating on HF, VHF, UHF and other waveforms. The R-TDIS DS operates in standalone mode via Linux operating system and can be configured with a detachable Windows computer. The R-TDIS Crew Stations operate with military-style headsets utlizing a two-way toggle switch for selectable intercom or radio communications.

The R-TDIS Crew Station and Wireless Interface

The R-TDIS Crew Station extends the capabilities of the R-TDIS Distribution System (DS) to the individual operator location. The operator is able to intercom among crew members as well as monitor and transmit to radio resources. The waterproof R-TDIS Crew Station features a ruggedized LCD display with night-vision goggle compatibility. From the LCD display and keypad, the operator is able to monitor multiple radio frequencies by selecting the left headset speaker, the right headset speaker, or binaural capability.

The optional secure wireless R-TDIS interface offers a free range of motion within proximity of the Distribution Unit while communicating with DISA approved, JITC certified wireless technology.

Specifications

- CS size: 7.5"W x 5"D x 2.5"H
- DS size: 13"W x 10"D x 4.2"H
- Audio output power varies from 0-17 Volts into a 600 ohm headset
- System input power 20-36 Volts DC (All system components powered via DU)
- Power requirements: DS=25 watts nom. (45 watts max.) OS=10 watts nom. (25 watts max.)
- System allows up to eight simultaneous transmitters
- >70 dB cross talk isolation
- MTBF>100,000 hours (designed to)
- Temperature range: -40C to +50C operational; -40F to +85C stored (designed to)

- DS supports up to eight (8) physical Crewstations
- Night Vision Goggle compatible (Gen II and Gen III)
- Chassis mount headphone receptacle on CS
- Programmable microprocessors
- Compatible with two-way toggle PTT adaptors
- Configuration program for Windows 10 OS
- Upgradable with various software updates
- Remote Radio Sharing with IP MANET
- Virtual CS Application for Android available
- Options for ATAK Plugin for Android

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