The Small Tactical Terminal (STT) KOR-24, co-developed by ViaSat and Harris, is a two-channel radio designed to meet the needs of users who have Size, Weight, and Power (SWaP) constraints but need the information available on Link 16 networks and/or tactical VHF/UHF. The STT brings mobile network connectivity to tactical warfighters and disadvantaged platforms such as ground vehicles, helicopters, UAVs, small boats, and Network Enabled Weapons (NEW). The STT is ruggedized to meet or exceed the demanding environmental requirements of those disadvantaged platforms. This two-channel Link 16 and VHF/UHF radio is packaged in an industry-standard compact form factor and is available at an affordable cost.

The STT brings real-time situational awareness, location, and command and control to the warfighter at the tactical network edge. In a single radio terminal, the edge user has access to both air and ground (friendly and enemy) situation data and can provide target data to the network in a secure and reliable manner.

The STT can be used to bridge the gap in users’ awareness between the air picture provided by TADIL-J/Link 16, and the ground picture provided by VMF and other VHF/UHF data link formats. This two-channel radio dramatically reduces data latency and improves data integrity between the traditional network platform users and the edge users for both situational awareness and command and control. Link 16 built-in identification means that STT terminals provide blue force reporting to reduce blue-on-blue engagements. With standardized TADIL messages and Ethernet interfaces, the STT can be used with multiple computers in a wide range of applications.
Small Tactical Terminal Specifications & Technical Features

ARCHITECTURAL OVERVIEW

Frequency Range: 30 to 512 MHz VHF/UHF; 960 to 1215 MHz Link 16
Transmission Modes: Simplex or half-duplex 16 kbps data, PT or CT
Antenna Ports: VHF/UHF (2): 50 Ω; Link 16 (2): 50 Ω
DC Power Input: 28 VDC per MIL-STD-704F, 1.5A Rx, <10A Tx
Configuration/Control/Data Interface: Ethernet 10/100 Base-T
Dimensions: 5 inches W x 5.6 inches H x 9 inches D; +2.74 inches deep front panel
Weight: 16.5 pounds
Crypto Modes: KY-57, ANDVT/KYV-5, KG-84C, KGR-96, KGV-8, KGV-11, CDH

RECEIVER
Adjacent Channel Rejection: 55 dB
IF & Image Rejection: >65 dB

TRANSMITTER
Power Output: 250 mW to 5 W [VHF/UHF]; 50 W [Link 16] with 34% TSDF

WAVEFORMS
VHF/UHF: ASK/FSK MIL-STD-188-220B/C/D, HaveQuick II, SINOGARS, Voice and Data
L-Band: Link 16 Data and Voice including Enhanced Throughput [ET]modes

ENVIRONMENTAL
Operating Temperature: -30°C to +52°C w/forced convection cooling
-30°C to +71°C w/host platform ECS cooling
Storage Temperature: -54°C to +90°C
Relative Humidity: ≤90% non-condensing / MIL-STD-810F
Altitude: 50,000 feet
Shock: 52 G 30 msec all axes / MIL-STD-810F
Vibration: Jet: MIL-STD-810 Method 514.5 Category 24
Helo: MIL-STD-810 Method 514.5 Category 14

STANDARD FEATURES
- Rugged, small, and lightweight
- SCA v2.2, reprogrammable embedded software
- Advanced power management
- VHF/UHF and Link 16 voice/data
- MIL-STD-188-220 B/C/D protocol
- Network Enabled Weapon Messaging
- Link 16 frequency remapping
- TADIL/J/K messages
- Crypto Modernization ready

OPTIONAL FEATURES
- External V/UHF PA
- VHF/UHF-to-Link 16 gateway
- Mounting tray with fan

GROWTH CAPABILITIES
- Modular design for easy growth
- Integral VHF/UHF and L-band transmitter power amplifiers
- VHF/UHF relay capability
- Antijam waveforms
- Interoperable with many radios including: JTIDS, MIDS LV, MIDS JTR, VHF/UHF LOS (MIL-STD-188-220 B/C/D) with PRC-117, PRC-152, ARC-210, Improved Data Modem (IDM)
- Geodetic navigation

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