## Simultaneous Two-Channel Comms for Air and Ground Interoperability

» Link 16

» Legacy VHF/UHF

» Wideband UHF
  ‣ SRW*
  ‣ ANW2*

» Satcom

5.6 in.

11 in.

The Small Tactical Terminal (STT) KOR-24A, co-developed by ViaSat and Harris, is a two-channel radio designed to meet the needs of users who have size, weight, and power constraints but need the information available on Link 16 networks and tactical VHF/UHF. Tactical warfighters, including ground vehicles, helicopters, UAVs, small boats, and light ISR aircraft can now have simultaneous access to Link 16 and either wideband UHF or legacy VHF/UHF. This terminal is packaged in an affordable, industry-standard compact form factor and is ruggedized to meet demanding environmental requirements.

The STT brings real-time situational awareness, location data, and command and control to tactical gateways and edge warfighters. With this terminal, edge users have access to both air and ground (friendly and enemy) situation data and can provide secure and reliable target data to the network. With the UHF channel configured for S-TADIL J or JRE, users have a single terminal that provides both LOS and BLOS TADIL J connectivity.

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 other VHF/UHF data link formats. This two-channel radio dramatically reduces data latency and improves data integrity between traditional network platforms and users at the edge for both situational awareness and command and control. Link 16 and combat net radio built-in identification means that STT terminals provide blue force reporting to reduce blue-on-blue engagements and avoid fratricide. With standardized TADIL messages and Ethernet interfaces, the STT can be used with multiple computers in a wide range of applications.

## STT AT-A-GLANCE

### Mission Flexibility
» Dual-channel radio
» Link 16 and VHF/UHF waveforms
» Voice and wideband data capable
» Low size, weight, and power
» Lower acquisition costs
» Multi-mission, multi-user, and multi-waveform
» Meets current and future requirements

### Situational Awareness
» Friendly force tracking
» Air and surface picture
» Interfaces with:
  ‣ ViaSat Link 16 toolset
  ‣ Air Defense Systems Integrator (ADSI®)
  ‣ Joint Range Extension (JRE)
  ‣ TRAX
  ‣ BOSS
  ‣ CAYMAN
  ‣ CDLIM
  ‣ Gateway Manager
  ‣ SPIDR

### Command and Control
» J12 mission management to any non-C2
» Status/weapons load/play times
» WILCO/CANTCO

### Target Attack
» Shortens kill chain—F2T2EA
  (Find, Fix, Track, Target, Engage, Assess)
» JTAC target POSID/9-line/BDA
» Target update
» Video, imagery, and data
» Mobile target attack

### NSA Certified

# ViaSat Small Tactical Terminal KOR-24A

## SPECIFICATIONS & TECHNICAL FEATURES

### PERFORMANCE

| | |
|---|---|
| Frequency Range | 30 to 512 MHz and 762 to 870 MHz narrowband VHF/UHF; 225 to 450 MHz wideband UHF; 969 to 1206 MHz Link 16 |
| Transmission Modes | Simplex or half-duplex 16 kbps data, PT or CT; 1.25 MHz wideband UHF; Link 16 TDMA, All OP modes and enhanced throughput |
| Antenna Ports | VHF/UHF (2): 50 Ω; Link 16 (2): 50 Ω |
| DC Power Input | 28 VDC per MIL-STD-704F; 3A Rx, <10A Tx |
| Configuration/Control/ Data Interface | Ethernet 10/100 Base-T |
| Dimensions (W x H x D) | 5 x 5.6 x 11 in; 12.7 x 14.2 x 27.9 cm |
| Weight | 16.5 lb; 7.5 kg |
| Crypto Modes | KY-57, ANDVT/KYV-5, KG-84C, KGR-96, KGV-8, KGV-11, CDH, KY-99, AES, and HAIPE® |

### RECEIVER

| | |
|---|---|
| Adjacent Channel Rejection | >40 dB |
| IF & Image Rejection | >65 dB |

### TRANSMITTER

| | |
|---|---|
| Power Output | 250 mW to 5 W (VHF/UHF); 63 W (Link 16) |

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | -40° C to +52° C with forced convection cooling; -30° C to +71° C with host platform ECS cooling; -40° to +60° C cold plate cooling |
| Storage Temperature | -54° C to +90° C |
| Relative Humidity | -≤90% non-condensing/MIL-STD–810F |
| Altitude | 50,000 ft |
| 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 |

### WAVEFORMS

| | |
|---|---|
| VHF/UHF | VULOS, HAVE QUICK II, SINCGARS, voice and data |
| L-band | Link 16 data and voice including enhanced throughput modes |

### STANDARD FEATURES

» Rugged, small, and lightweight
» SCA v2.2.2, reprogrammable embedded software
» Advanced power management
» VHF/UHF and Link 16 voice/data
» Link 16 frequency remapping
» Crypto Modernization ready
» Modular design for easy growth
» Integral VHF/UHF and L-band transmitter power amplifiers
» VHF/UHF relay capability
» Anti-jam waveforms
» Interoperable with: JTIDS, MIDS-LVT, MIDS JTRS, VHF/UHF LOS (MIL-STD-188-220 B/C/D) with PRC-117, PRC-152, ARC-210, Improved Data Modem (IDM)
» Geodetic navigation
» OMS compliant

### OPTIONAL FEATURES

» External VHF/UHF PA
» Mounting tray with fan
» Power conditioning unit
» ANW2C and SRW waveforms (Limited to Nations approved for each waveform)
» HPW, HPW IP
» DAMA, IW
» P25
» Harris SA mode
» 8.33 kHz Ch spacing

### GROWTH CAPABILITIES

» SRW-UAG, SRW-EW, SATURN
» P25 Trunked
» MIL-STD-188-220D
» WNM
» MUOS
» Link 16 precision navigation
» Enhanced anti-jam



## CONTACT

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