

## **L3HARRIS KOR-24A** **SMALL TACTICAL TERMINAL (STT)**

### **Low-SWaP, Simultaneous VHF/UHF and Link 16 Communications**

The two-channel KOR-24A Small Tactical Terminal (STT) delivers real-time Situational Awareness and Command and Control to the warfighter at the tactical edge. Users can access both friendly and enemy air and ground Position Location Information (PLI), and securely provide target data to the network.



Co-developed by L3Harris and ViaSat, the STT incorporates the capabilities of two L3Harris RF300M-DL(C) multiband radios plus Link 16 into an airborne form factor with the same SWaP as a traditional, single-channel Airborne radio. This provides powerful mobile network

connectivity to dismounted warfighters and disadvantaged platforms such as ground vehicles, helicopters, UAVs and network-enabled weapons.

Capable of simultaneous operation of VHF/UHF and Link 16—or two channels of VHF/UHF—the STT is also interoperable with traditional narrowband waveforms such as SINCGARS, Havequick II, and VHF/UHF AM and FM. Acting as a relay, this airborne solution supports wideband-networking waveforms for voice, high-speed networked data and Full-Motion Video on the move.



### **MOBILE, NETWORKED CONNECTIVITY TO WEAPONS, PLATFORMS AND MISSIONS**

#### **KEY BENEFITS**

- > **Sierra™ II** for secure communications up to Secret and Below
- > **Two wideband-capable radio channels** for simultaneous VHF/UHF and jam-resistant Link 16 operation, or two channels of VHF/UHF
- > **Expanded capabilities in same SWaP** as single-channel, narrowband radios
- > **Expanded networking waveforms** (ANW2®C, SRW)
- > **Beyond-Line-Of-Sight** communications for users of wideband and legacy waveforms
- > **Easily integrates** into a wide variety of platforms

GENERAL	
RT Nomenclature	KOR-24A
Frequency Range	30–520 MHz (narrowband) 520 MHz, 762–870 MHz (narrowband) 225–450 MHz (wideband) 960–1215 MHz (Link 16)
Channel Spacing/Bandwidth	Narrowband: 8.33 kHz, 12.5 kHz, 25 kHz Wideband: 1.2 MHz
Net Presets	99 (standard); unlimited with multiple mission plan files
External GPS Compatibility	PLGR, DAGR, NMEA 0183 compliant management tool L3Harris CPA, JENM for SRW, L16 Host for L16
Management Tool	Windows Communications Planning Application (CPA); JENM compatible
Frequency Tuning	KDU: 100 Hz, ASCII Remote, 1 Hz, ANW2C: 5 kHz
Software Environment	Software Defined Radio
Frequency Stability	±0.5 parts per million

TRANSMITTER	
Power Output	250 mW to 5 W, 10 W SATCOM burst mode, 63 W Link 16
Audio Input	Fixed level audio

RECEIVER	
Sensitivity	FM Sensitivity: 116 dBm 12 dB SINAD (typical) FM Deviation: 5, 6.5, and 8 kHz
Adjacent Channel Rejection	> -40 dB
Squelch	Selectable (tone, noise, CDCSS, CTCSS)
Audio Output	Fixed level audio

POWER	
Power Input	28 Vdc per MIL-STD-704F; 3A Rx, <10A Tx

SECURITY	
Encryption	KY-57, ANDVT/KYV-5, KG-84C, KGR-96, KGV-8, KGV-11, CDH
Key Fill Device Compatibility	AN/CYZ-10 DTD (supports DS-101, DS-102 and mode 2/3), KOI-18, KYK-13, KYX-15, MX-18290, AN/PYQ-10, KIK-20
Key Storage	Up to 300 keys per channel

MODES AND WAVEFORMS	
Narrowband Waveforms	Voice mode: AM/FM Line-Of-Sight, SINCGARS SC/FH, HAVEQUICK II Data mode: 16 kbps FSK/ASK
Wideband Waveforms	Voice mode: CNR voice mode, L16 voice Data mode: 64 kbps to 170 kbps GMSK; 380 kbps to 1.2 Mbps PSK (includes video) Link 16: TDMA, All op modes and enhanced throughput

MODES AND WAVEFORMS	
Standard Narrowband Waveforms	AM/FM VHF/UHF LOS High Band Frequency (optional) SINCGARS HAVEQUICK I, II MIL-STD-188–181B dedicated channel
Optional Narrowband Waveforms	HPW HPW-IP APCO P-25 MIL-STD-188–181C, 183B IW Phase 1 IW DAMA
Standard Wideband Waveforms	Link 16
Optional Wideband Waveforms	ANW2C SRW

PHYSICAL	
Dimensions	5.6 H x 5 W x 11 D in (14.2 H x 12.7 W x 27.9 D cm)
Weight	16.5 lbs

ENVIRONMENTAL	
Shock and Vibration	52 G 30 msec all axes/MIL-STD–810F Jet MIL-STD-810 Method 514.5 Category 24 Helo MIL-STD-810 Method 514.5 Category 14
Temperature	Operating: -40°C to +52°C with forced convection cooling; -30°C to +71°C with host platform ECS cooling; -40°C to +60°C cold plate cooling Storage: -54°C to +90°C
Humidity	MIL-STD-810F/≤ 90% noncondensing
Altitude	50,000 ft

INTERFACES	
Data/Control	Ethernet 10/100 Base-T, RS-232 (MIL-STD-188-114A) DTE Port, USB
Additional Control Ports	RS-232, RS-422, RKDU/VKDU
Narrowband	USB
Wideband	Ethernet (USB/RNDIS host and device)

OPTIONAL FEATURES	
External PAs for greater range	
VHF/UHF to Link 16 gateway	
Forced air cooling	
High rate VHF/UHF network waveforms	
SRW, DAMA, et al.	

### L3Harris KOR-24A Small Tactical Terminal (STT)

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