

LINE-OF-SIGHT KU/X (LNKX) SURFACE TERMINAL EQUIPMENT (STE)

Fielded dual Ku- and X-band ground LOS system that supports data rates up to 274 Mbps

The LNKX STE is a full-duplex dual X/Ku-band LOS communications system compatible with P-3, P-8A, MQ-9B, MH-60R and many other U.S./NATO coalition platforms.

PRODUCT DESCRIPTION

LNKX STE provides full-duplex, point-to-point dual Ku-band and X-band line-of-sight communications between an airborne data link terminal and the ground terminal. The system combines user-side interfaces and encryption at the local equipment group with remote RF and antenna equipment positioned where link performance demands it.

Its split architecture gives operators more deployment flexibility by separating the Local Equipment Assembly (LEA) from the Remote Equipment Group

(REG) through single-mode fiber or Ethernet network transport. The result is a fieldable terminal that supports mission performance while simplifying placement of user equipment, RF hardware and antennas.



Full Duplex dual Ku/X-band LOS Communications System

KEY FEATURES

- > Supports dual Ku-band and X-band LOS communications in a full-duplex, point-to-point architecture
- > Uses a split LEG/REG design to separate user operations over an Ethernet network from remote RF and antenna equipment
- > Combines a 48-inch directional antenna with an omni antenna for long-range and close-range mission profiles
- > Integrates NSA Cryptographic Core Modernization (CCM) based encryption
- > Supports standard CDL and bandwidth-efficient CDL waveforms from 200 kbps up to 274 Mbps
- > Provides operator access through a GUI with BIT, PBIT, CBIT and IBIT maintenance support

SPECIFICATIONS

ANTENNA GAIN	DIRECTIONAL	OMNI
Ku-Band	41.0 dBi	2.5 to 3.3 dBi
X-Band	37.9 dBi	1.0 to 2.4 dBi
Transmit	9.75-9.95 GHz 15.15-15.35 GHz	
Receive	10.15-10.425 GHz 14.40-14.83 GHz	
Polarization	RHCP	

INPUT POWER	
Antenna with RFE and REA	28 VDC $\pm$ 2 percent from REG power supply
LEA	85-264 VAC, 47-440 Hz, single phase
REG Power Supply	100-264 VAC, 47-64 Hz, single phase

ENVIRONMENTAL	
Operational Temperature	-40°F to 122°F (-40°C to 50°C)
Storage Temperature	-27°F to 160°F (-33°C to 71°C)
Operational Altitude	MSL to 10,000 ft (3,048 m)
Transit Altitude	MSL to 40,000 ft (12,192 m)
Humidity	Up to 95% condensing and non-condensing

WAVEFORMS	
CDL	0.200-274 Mbps
BE-CDL	0.51-20 Mbps Mode 1-15, 17-18, 21, 101-102, and 105

SIZE AND WEIGHT					
Component	Width (in/cm)	Height (in/cm)	Depth (in/cm)	Weight (lb/kg)	Max Power (W)
REA	8.75/22.23	8.49/21.56	14.61/37.11	23.58/10.70	From REG power supply
RFE	15.92/40.44	9.41/23.90	18.40/46.74	33.98/15.41	
Directional Antenna	60.00/152.40	64.90/164.85	60.00/152.40	137.00/62.14	
LEA	8.70/22.10	8.48/21.54	18.24/46.33	25.14/11.40	326
REG Power Supply	9.80/24.89	10.34/26.26	17.20/43.69	39.00/17.69	1,108
500-Foot Fiber Optic Reel	18.00 dia/45.72 dia	16.00/40.64	N/A	15.70/7.12	N/A

LNKX STE Web GUI

Line-of-sight Ku/X (LNKX) Surface Terminal Equipment (STE)

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