

## 4.6 METER TACTICAL Ku SATCOM TRANSPORTABLE EARTH TERMINAL

### Supports Beyond Line of Sight (BLOS) Intelligence Surveillance and Reconnaissance (ISR) with UAV and Manned Aircraft

The Transportable Ku SATCOM Terminal is a 4.6 meter antenna that is capable of supporting multiple RF bands. It is field reconfigurable to support (C, X, Ku, Ka and dual Ku/Ka) frequencies. The Antenna is designed to support multi-carrier missions set on each pole for transmit and receive paths with built in redundancy. The L3Harris antenna is equipped with standard L-Band interfaces. Active devices are IP enabled which support remote operations.

#### PRODUCT DESCRIPTION

The 4.6 Meter SATCOM Terminal can be packed and transported on a single trailer for setup in the field, and operated locally or remotely with user-friendly Mission Resource Manager (MRM) software. The antenna is designed to be modem agnostic and allows seamless integration with other DoD and commercial applications. The Ku SATCOM Antenna system is ruggedized to support remote deployment locations and requires minimum maintenance to operate. Auto satellite acquisition and tracking is built-in for ease of use by the warfighter.



Use of U.S. DoD visual information does not imply or constitute DoD endorsement.

### Simultaneous Dual Polarization H/V and SSPA/LNA Full Redundancy

#### KEY BENEFITS

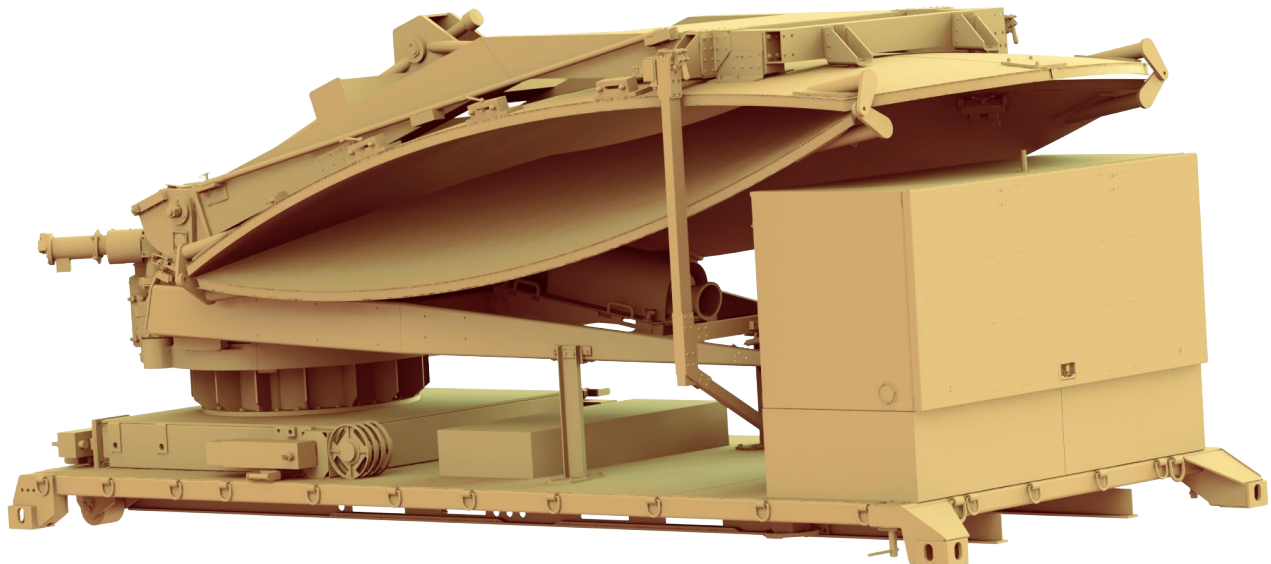
- > Transportable on one C-130, C-17 or C-5 aircraft
  - Occupies three 463L pallets of volume
  - ATTLA certifiable
- > 1:2 SSPA transmit technology with redundancy
- > 1:2 LNA receive with redundancy
- > Win 10 950T antenna tracking system
  - Supports Inclined Orbit (IO) satellites
  - Step track, OP track, memory track and manual
- > Capable of supporting multi-carrier missions on each polarity
- > Intuitive GUI control, Mission Resource Manager (MRM) software

## SPECIFICATIONS

### KU-BAND TERMINAL – CONSOLIDATED KEY PERFORMANCE SUMMARY

RF/ELECTRICAL PARAMETERS	Ku-BAND
Frequency range (GHz)	RX: 10.750–12.750 GHz TX: 13.750–14.500 GHz
Tuning	1.0 kHz steps
Receive G/T (minimum) at 7.5° elevation	≥ 31dBi/K at 10.75 GHz
Receive antenna gain (minimum)	10.950 GHz: 54.1 dBi
LNA noise temperature at 23°C (max)	80°K
Linear EIRP (200 W SSPA)	71 dBW
Transmit antenna gain (minimum)	14.0 GHz: 54.9 dBi
Polarization	4-port linear polarized
Radiation pattern envelope	Meets ITU-RS-580
Axial Ratio/Cross-polarization	Linear cross-polarization: > 30 dB min. (Meets ITU-R S.580 requirements)
Certifiable	Intelsat E2 ARSTRAT
Fiber optic interfaces	SM/MM single mode Multi mode
RF interfaces for transmit and receive	L-Band 950-2050 Mhz
Command and status	Ethernet SNMP v3
Self test	Built-In Test (BIT)
Encryption	Type 1 AES
Additional Capabilities	Split black/red modem Interference excision capabilities MIL-STD-188-165b waveform support

MECHANICAL PARAMETERS	
Weight	Less than 15,000 lb.
Setup Time	<2 hrs with 1 E3 personnel
Workmanship	Best commercial practices exercised



Terminal Stowed

#### 4.6 Meter Tactical Ku SATCOM Transportable Earth Terminal

© 2020 L3Harris Technologies, Inc. | 11/2020 | BCS | 20-DSD-225 | Rev-201

These item(s)/data have been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR part 120.11, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

Use of U.S. DoD visual information does not imply or constitute DoD endorsement.



1025 W. NASA Boulevard  
Melbourne, FL 32919  
t 833 537 6837  
CSW.Products@L3Harris.com