



# SATCOM Network Systems for Helicopters

ELK-1882T NC<sup>2</sup> SATCOM Network Terminal





# SATCOM Network Systems for Helicopters

## ELK-1882T NC<sup>2</sup> SATCOM Network Terminal

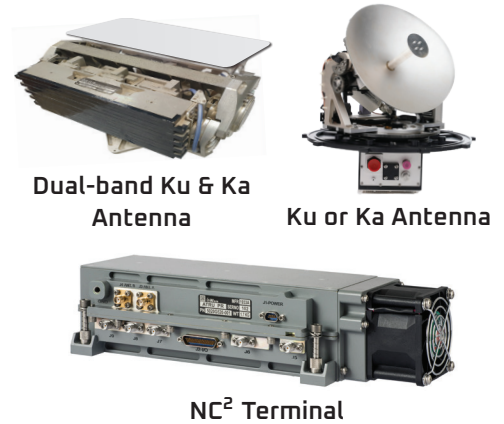
The NC<sup>2</sup> SATCOM Network Terminal (ELK-1882T) provides helicopters with secure, Beyond-Line-Of-Sight (BLOS) voice and data communications, which are essential for nap-of-the-earth (NOE) flight when no other communications means are available.

NC<sup>2</sup> SATCOM Network Systems are offered as single- or dual-band solutions, operating in the Ku or Ka-bands, using geostationary satellites. The dual-band antennas are integrated on a single pedestal and managed by a single controller. With a high-performance and robust network design, the system connects hundreds of registered users and switches seamlessly between frequencies, at any given moment, according to the mission scenario and requirements.

The NC<sup>2</sup> SATCOM Network Terminal is part of ELTA's operationally proven ELK-1882T SATCOM product range. ELTA's SATCOM systems are pioneers in the market with decades of operational experience. The systems have been deployed worldwide on hundreds of helicopters in a variety of models, including Sikorsky CH53, Chinook CH47, Apache AH 64, Black-Hawk UH 60, and Airbus H225M.

### Features

- Seamless transmission and reception of bidirectional voice, video and data
- Supports simultaneous, large scale network use
- State of the art Software Defined Radio (SDR) technology using sophisticated Forward Error Correction (FEC) algorithms
- High spectral efficiency techniques using unique CDMA algorithms
- Complies with ITU-R 524-9 spectral density regulation for small antenna using Direct Sequence Spread Spectrum technology



### Technical Specifications

Description	Parameters - Ku	Parameters - Ka
Frequencies	Tx: 13.75GHz-14.5GHz Rx: 10.95GHz-12.75GHz	Tx: 27.5GHz-31.0GHz Rx: 17.7GHz-21.2GHz
G/T	7dbk	12dbk
Polarization	Linear	Circular
Number of network users up to	1,000	
Max number of simultaneous network users	V1: 48 or V2: 24*	
Network capacity	V1: 1Mbps V2: 9Mbps	
Terminal throughput	V1: Transmit up to 160Kbps & Receive up to 200Kbps V2: Transmit up to 768Kbps & Receive up to 4Mbps	
Dynamic Performance	Elevation: 0° - 90° Azimuth: 0° - 360° Angular speed: 200°/s	
Tracking System	Pointing with INS input data with pointing accuracy of < 0.5°	
Waveform Modulation	Inbound: CDMA over FDMA Outbound: TDMA over CDMA	
Weight	20kg	
Mil-Standard Compliance	MIL-STD-704,180 and 461	
Operating temperatures	-40°C - +71°C	
Power	28Vdc	
Power consumption	450W	

\* V1 & V2: according to number of networks

03/22



IAI – ELTA GROUP  
[WWW.IAI.CO.IL](http://WWW.IAI.CO.IL)  
[MARKET@ELTA.CO.IL](mailto:MARKET@ELTA.CO.IL)