



# SATCOM NETWORK SYSTEMS FOR SUBMARINES

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



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The NC<sup>2</sup> SATCOM Network Terminal (ELK-1882T) provides submarines with secure and reliable Beyond-Line-Of-Sight (BLOS) voice, video and data communications in point-to-point or network configurations. Using geostationary or LEO satellites and operating in the Ku band, the NC<sup>2</sup> SATCOM Network System is offered either with a high-gain parabolic antenna, or with an Active Electronically Scanned Array (AESA) antenna implementing electronic beam steering. The innovative antennas adhere to reduced SWaP (Size Weight and Power) and can be installed within the submarine's optronic mast, thereby optimizing stealth for covert operations. The antennas are housed in a compact radome that can withstand high underwater pressure.

The NC<sup>2</sup> SATCOM Network Terminal is part of ELTA's operationally proven range of naval communication solutions, with decades of successful operational service.

### FEATURES

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



NC<sup>2</sup> Terminal



Parabolic Antenna



AESA Antenna

Descriptions	Wideband PTP	Network	AESA PTP
<b>Frequencies (Ku band)</b>	Tx: 13.75GHz - 14.5GHz Rx: 10.95GHz - 12.75GHz		
<b>G/T</b>	7dbk		-4dB/k
<b>Polarization</b>	Linear		
<b>Terminal throughput</b>	Transmit up to 10Mbps & Receive up to 200Kbps	Transmit up to 160Kbps & Receive up to 200Kbps	Transmit up to 52Kbps & Receive up to 52Kbps
<b>Dynamic Performance</b>	Elevation: 0° - 90° Azimuth: 0° - 360°		Elevation: 20° - 90° Azimuth: 0° - 360°
<b>Tracking System</b>	Pointing with INS input data; pointing accuracy < 0.5°		
<b>Terminal Size</b>	300mm antenna diameter		285x114x44 mm (WxDxH)
<b>Weight</b>	15kg		1.5kg
<b>Mil-Standard Compliance</b>	MIL-STD-704, 180 and 461		
<b>Operating temperature range</b>	-400C ÷ +710C		
<b>Power consumption</b>	450W		30W

06/22

