



Compact Wideband AESA SATCOM Terminal

For Ground Vehicles, UAVs & Small
Aerial Platforms
ELK-1882T



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General

Compact Wideband AESA SATCOM System (ELK-1882T) is a lightweight satellite communications terminal based on Active Electronically Steered Array (AESA) technology. It provides Beyond-Line-of-Sight (BLOS) wideband bi-directional communications for voice, images, video and data. The AESA terminal maintains a continuous satellite link by electronic beam steering. Its flat panel is conformal to the contour of the platform, minimizing the terminal's silhouette, drag, and Radar Cross Section (RCS).

The lightweight and compact terminal is ideal for installation on ground platforms such as armored or light vehicles, as well as small aerial platforms including UAVs and drones. The system operates in Ku or Ka band frequencies via GEO, MEO or LEO satellites. The terminal comprises a single unit, which includes a conformal AESA antenna and modem.



Features:

- Complies with ITU-R 524-9 spectral density regulation for small antenna using Direct Sequence Spread Spectrum technology
- Software Defined Radio (SDR) technology
- High MTBF and graceful degradation due to antenna technology and no moving parts

Technical Specifications

Descriptions	Parameters
Data Rate	Up to 1Mbps
Frequency Bands	Ku, Ka
Azimuth	0° - 360°
Elevation	20° - 90°
Dynamic Performance	Electronic Beam Steering
Weight	3.6 kg
Power, Environmental & EMI/EMC	MIL-STD-704E, 180 & 461
Operating Temperature Range	-40°C - +71°C
Power Consumption	Up to 200W
Dimensions	335 × 154 × 75mm

