



# Communications Suite for Loitering Munitions

LOS, BLOS (SATCOM) & BVLOS (Cellular)  
ELK-1882T, ELK-1888





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The Communications Suite for Loitering Munitions (LM) provides LM manufacturers and end-users with Military Off-the-Shelf (MOTS) systems tailored to LM platforms. The suite comprises solutions for Line of Sight (LOS) communications, Beyond Line of Sight (BLOS) Satellite Communications (SATCOM), and Beyond Visual Line-of-Sight (BVLOS) communications based on 5G cellular technology. The end-to-end solutions comprise LM and ground terminals.

These solutions offer reliable communications and are resilient in adverse environments. For long-range operation, SATCOM ensures an uninterrupted data link. LOS communications provide high data rates when available. SATCOM is available both with mechanical and flat Active Electronically Scanned Array (AESA) antennas. At shorter ranges and in complex urban environments, a 5G cellular network capability is available. In this scenario, a rugged cellular modem on the LM communicates with operators via a private cellular network.






The systems are designed to meet the demanding Size, Weight and Power (SWaP) and cost constraints necessary for LM munitions platforms, while delivering optimal performance and reliability.

The Communications Suite leverages ELTA's world-renowned and operationally proven communication products: ELK-1882T & ELK-1888, which are deployed and operational worldwide.

### KEY FEATURES

- Long-range, high data rate
- Low latency
- Supports LM swarms - Point-to-Multipoint
- COMSEC & TRANSEC - reduced probability of interception and disruption
- Modular – fully adaptable to customer requirements (frequency band options, modulations, transmission power, antenna) – see table

### SPECIFICATIONS

Parameters/ Specifications					
	LOS	SATCOM - AESA	SATCOM-Ku	SATCOM-Ka	Cellular
Frequency Band	C,S,UHF	Ku,Ka	Ku	Ka	C,S
Dimensions	184*82*83 mm	28*11*6cm	34*16*8cm	21*21*24cm	100*75*30mm
Payload Weight	700 gr	1.6 Kg	3.5 Kg	4.5 Kg	250 gr
Operating Temperature Range		Non-operating: -40°C to +71°C Operating (flight): -27°C to +50°C @ 30m/sec air circulation. Operational (ground up to 15min): -33°C to +71°C			-20°C to +71°C -40°C to +85°C (70°C base plate)
Power Consumption	< 50W	30-300W	30-300W	30-300W	Up to 6W
Airborne Antenna	Omnidirectional, Directional (Planar/dish)	AESA, Auto tracking	Mechanical pointing	Mechanical pointing	Omni directional/ Directional
Environmental	MIL-STD-810G, 461E				

