

# HIGH DATA RATE MODEM, L - BAND



## KEY SPECIFICATIONS

- Full Duplex Operation
- Up to 40 Mbps Data Rate
- Lower Power Consumption
- Compact Size
- Low Weight

The L Band Modem System is a compact, high data rate two-way full duplex data link for UAV intelligence, surveillance and reconnaissance missions. It is a single module solution which can handle uplink and downlink data together. For downlink, video and telemetry data can be multiplexed inside the airborne module and demultiplexed by the ground module to be displayed on the user interface of the operator.

The L Band Modem System can be operated full duplex in L Band (700 MHz to 2 GHz) up to 40 Mbps data rate. Operation frequencies and data rates can be adjusted in these bands for the uplink and downlink communications. Modulation type can be selected between BPSK and QPSK. Compact size and low power consumption allows L Band Modem airborne module to be used in mini, midi and tactical UAVs.

The L Band Modem has fully transparent 10/100 Base-T Ethernet and RS 422/485 data interfaces. It can be directly operated with any IP camera. Data security is secured via AES 256 encryption algorithm. Reed Solomon (RS) and convolutional error correction encoding and decoding capability highly improve receiver sensitivity for different data rates.

## TECHNICAL SPECIFICATIONS

Frequency Range:	700 MHz – 2 GHz	
Data Rate:	Up to 40 Mbps	
Modulation Type:	CPFSK / MSK / QPSK / BPSK	
Data Encryption:	AES 256	
Power Consumption:	<5W	
FEC:	Reed Solomon(RS)	Convolutional
Dimension:	110x100x30 mm	
Weight:	200 g	
Data Interface:	10/100 Base-T Ethernet	RS422/485