

# L-BAND SATELLITE MODEM





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L-Band Satellite Modem is designed to have very talented and powerful state-of-the-art architecture in order to compete the other available modems in the world. This software defined architecture paves the way for flexible implementation of any proprietary, tactical or industrially standardized waveforms, access techniques such as FDMA, TDMA, MF-TDMA and data handling and bandwidth management capabilities. This Modem is capable of meeting wide range of requirements and enables diverse range of applications.

The L- Band Satellite Modem covers the widest L-band frequency range of 950 - 2150 MHz.

The L-Band Satellite Modem provides secure and reliable IP services including voice, data and video for different satellite communication terminals such as airborne, ship borne, submarine, SATCOM on the pause, SATCOM on the move.

## Basic Features:

- Software Defined Modem
- One Hardware to Support multiple tactical waveform on one platform one at a time (FDMA , TDMA, MF-TDMA, etc.)
- Operating Frequency band : 950 - 2150 MHz
- Adjustable Channel Bandwidth: 100KHz to 10 MHz
- High efficiency SCPC waveform implementation
- State of the art MODCOD (Modulation and coding) support with approximately 1dB SNR steps
  - LDPC, Convolutional
  - BPSK, (O)QPSK, 8PSK, 16QAM
- Adjustable Data Rate up to 20 Mbps with many options through channel bandwidth, modulation and coding alternatives
- Adaptive Coding and Modulation and Automatic Power Control (APC) Support
- IP routing and Bridging
  - IP QoS
  - Network optimization
  - VLAN Functionality
- Proprietary Crypto Algorithm Development for satellite link encryption

