



Laksha DSSS and SOQPSK Telemetry Radio

Product Description

DSSS and SOQPSK-TG Radio is a dual waveform based radio with DSSS on control link and SOQPSK-TG on high data rate telemetry. DSSS is spread spectrum based Anti-jamming support LPI/LPD waveform and SOQPSK is constant envelope and continuous phase modulation waveform based spectrally efficient radio for high data rate telemetry applications.



Airborne Telemetry Radio

Applications

- Point to Point Command, Control and High Data Rate Telemetry Links
- Mission critical and high availability communication
- Missile Defence Networks
- High Mobility/Doppler support



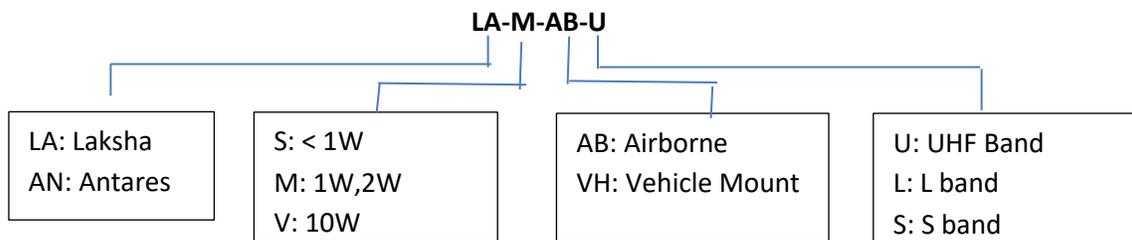
Airborne Telemetry Radio



Specifications

Feature	Description
System Specifications	
Operating Frequency	Radio Front Ends for L band, S-Band and C-band
RF Bandwidth	Maximum of 20 MHz
Throughput	1.2 Kbps to 256 Kbps on Control Link 256 Kbps to 20 Mbps on High data rate telemetry Link
RF Output Power	Low Power and 0.5W, 1W and 10W Configurations
Antenna	Antenna 1 for Transmit and Receive Antenna 2 for Receive only (optional)
Waveforms	DSSS and SOQPSK-TG
No of Channels	Multi-Code and Multi-channel Transceiver
FEC	CC and CTC Rate $\frac{1}{2}$, LDPC 1K, 4K block sizes with $\frac{1}{2}$, $\frac{2}{3}$ and $\frac{4}{5}$
Mobility	120 Kmph
Duplex Method	TDD and FDD
Topology	Point to Point Command and Control & Telemetry Link
Data	IP and Serial Data
Physical Specifications	
Power Input	24 to 48 V DC Input
Dimensions	175 mm x 125 mm x 55 mm
Weight	< 1000 grams (Customizable for specific Transmit Power)
Enclosure	Aluminium alloy, IP65 Grade Environmental sealing Housing
Connectors	38999 series circular connector interfaces
Mounting Option	Mounting provision for Vehicular and pole
Environmental	MIL STD 810 G compliance for Vibration, shock and thermal stress

Ordering Information



For Custom RF Power, RF band and Form Factors, please send email with requirements

