ADS-B Receiver

ADS-B (Automatic dependent surveillance-broadcast)-In is a key functionality for Aviation surveillance applications. Indigenously built ADS-B (Automatic dependent surveillance-broadcast) Receiver is a L-band Radio operating at 1090 MHz and decodes RTCA 260-B compliant ADS-B messages.

ADS-B

Appication

- Ruggedized and Environmental qualified Unit for military applications
- RTCA-260B Compliant
- Ethernet and RS-232 Interfaces for Message Interface and Debug Interface
- User Interface Application
- Add on GPS Receiver Functionality
- Customization (Hardware and Software) for specific use cases
- Near Theoretical Receiver Sensitivity for best ranges
- Real time processing with low latency and best update rates
- System with COTS or Indigenously design Antenna
- Roadmap for 978 MHz UAT Mode

System Specifications

Operating Frequency	1090 MHz +/- 2 MHz 978 MHz UAT (Roadmap)
Standard Compliance	RTCA DO 260B
Number of Receive Channels	2 channels CH1 – 1090 MHz CH2 – 978 MHz (Roadmap)
Modulation	PPM
Data Rate	1 Mbps
Rx Sensitivity	Better than -90 dBm
Range	200 NM (Dependencies on ADS-B Out Tx Power and LOS conditions)
Data Interfaces	Ethernet and RS-232
Message Protocol	UDP
Message Update Rate	1Hz
GNSS Receiver	External Interface and Internal GPS Option
Antenna	ADS-B Antenna GNSS Antenna (for Internal GNSS Receiver option)
Software Update	Support for Software Upgrades
User Interface	GUI App with Receiver Messages and KPI (Key Performance Indicators) monitoring

Physical Specifications

Power Input	28V DC Input or AC Input through Adapter
Enclosure	Aluminium alloy, IP65 Grade Environmental sealing Housing
Connectors	38999 series circular connector interfaces RF Antenna Connectors (ADS-B and GNSS)
Mounting Option	Mounting provision for Vehicular and pole
Environmental & EMI/EMC	MIL STD 810 G compliance for Vibration, shock, and thermal stress MIL-STD 461E
Operating Temperature	-40 ºC to +65 ºC
Dimensions	< 150 mm x 110 mm x 75 mm (Customizable form factors for specific use cases)
Weight	< 1 Kg

Additional Features (Roadmap)

ADS-B Out	Add on Module for ADS-B Out

For further information or a demonstration, please send a request to business@lekhawireless.com.
For details on other products please visit www.lekhawireless.com.