Navdoot

Two-Way Mobile Satellite Service Terminal

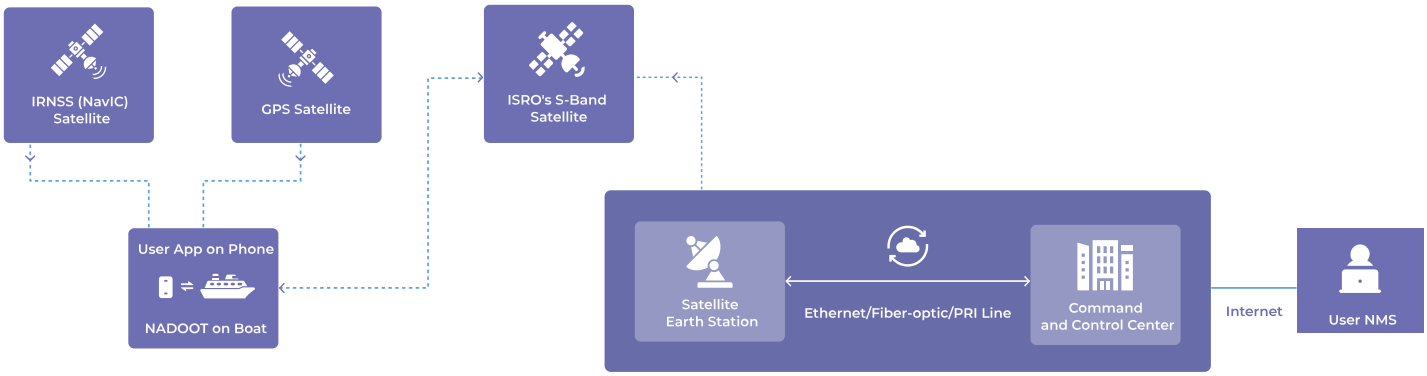
NAVDOOT is a Satellite Based Vessel Tracking Terminal to enable two-way communication (ship-to-shore & shore-to- ship), real-time tracking, and monitoring of fishing vessels in deep sea. It is designed to operate on ISRO's Geo-Stationery S-Band satellite. It is powered by Tejas Networks' award winning, low- power, Software Defined Radio (SDR) chipsets.

It comprises of an S-Band Modem, a IRNSS (NavIC) and GPS receiver, Bluetooth module, Antenna and Battery all housed inside a ruggedized casing providing excellent environmental protection.

Light in weight and compact in size, the S-Band MSS terminal can be securely mounted on flat surface or on a pole.

Features

- Compact, light weight terminal with flexible mounting options
- Android app for two-way messaging configuration, control and data
- IRNSS (NavIC) and GPS multi-mode tracking
- IP 67 Compliant casing to operate in harsh marine environment
- Software upgrade Over the Air (OTA)
- Separate physically connected SOS unit



Network Diagram

Benefits to Stakeholders

Fishermen
- Send distress signal in emergency
- Get weather and fishing zone alerts

Boat Owners
- Real-time location tracking of boats
- Communication with boat crew

Fisheries Department
- Broadcast emergency alerts to the boats
- Tracking of boats

Maritime Security
- Monitoring of boats for coastal security
- Aid in search and rescue operations

Technical Specifications	
Tx Frequency Band	2658 - 2680 MHZ
Rx Frequency Band	2560 - 2590 MHZ
Max EIRP of the Terminal	4.5 dBW
Tx Data Rate	0.6/1.2/2.4 Kbps (configurable)
Rx Data Rate	9.6/19.2/32 Kbps (configurable)
Dimensions	125 mm diameter, 120 mm height
Weight	< 1 KG
Interface	Bluetooth for control/configuration
Ingress Protection	IP 67 Compliant

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