

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-Stationary S-Band satellite. It is powered by Saankhya Labs' 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



Software upgrade Over the Air (OTA)

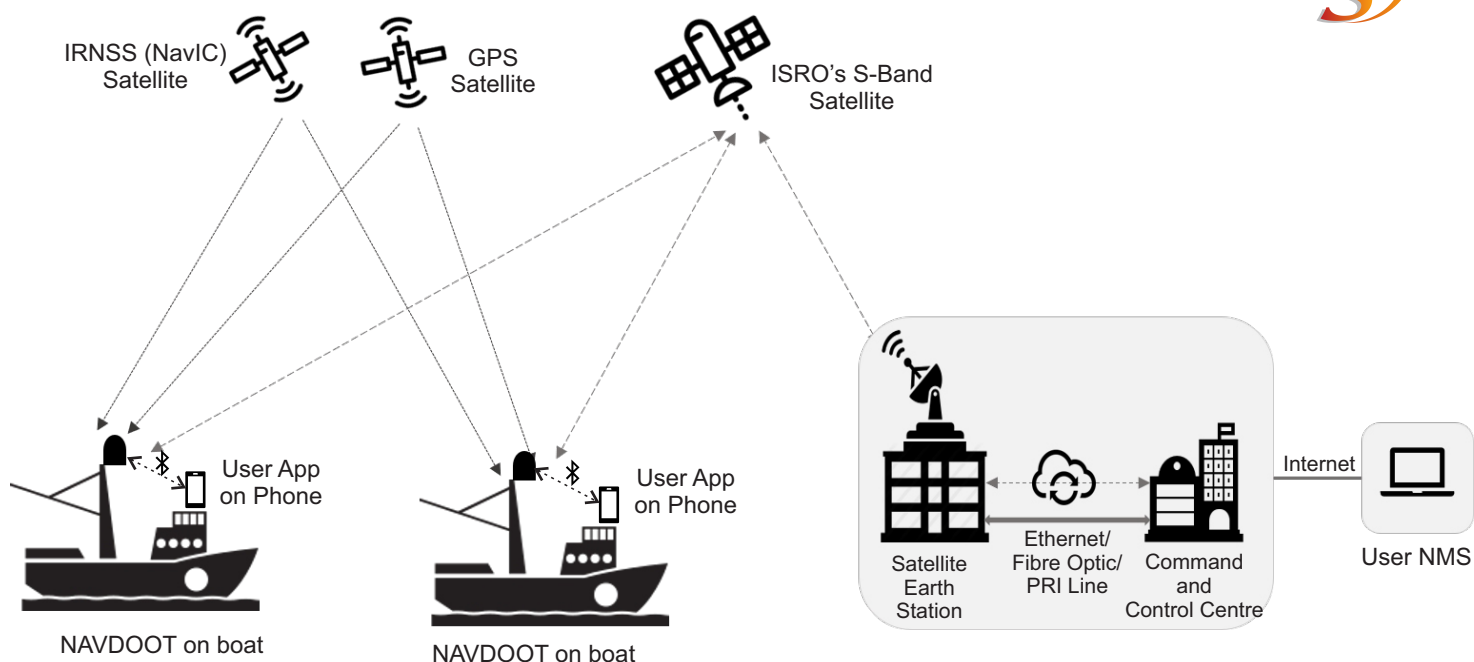


IP 67 Compliant casing to operate in harsh marine environment



Separate physically connected SOS unit





Benefits to Stakeholders



Fishermen

Send distress signal in emergency
Get weather and fishing zone alerts



Fisheries Dept.

Broadcast emergency alerts to the boats
Tracking of boats



Boat Owners

Real-time location tracking of boats
Communication with boat crew



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

