

NAVRAIL

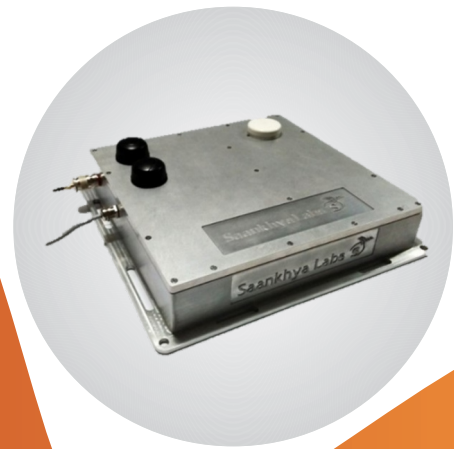
Two-Way Mobile Satellite Service Terminal

NAVRAIL is a Two-way Mobile Satellite Service terminal designed for real-time tracking of locomotives. It has S-Band Modem and GPS Modules which transmit geo-location coordinates and other data to remote hub using ISRO's GSAT Satellite. The solution will enable users to track the live location of the locomotive using a specially designed app and website

Navrail works on dynamic TDMA mode with continuous receive and burst transmit option.

It comprises of an S-Band Modem, a NAVIC/GPS receiver, WiFi/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 a pole or fixed on a flat surface.



FEATURES



Real Time Locomotive Tracking



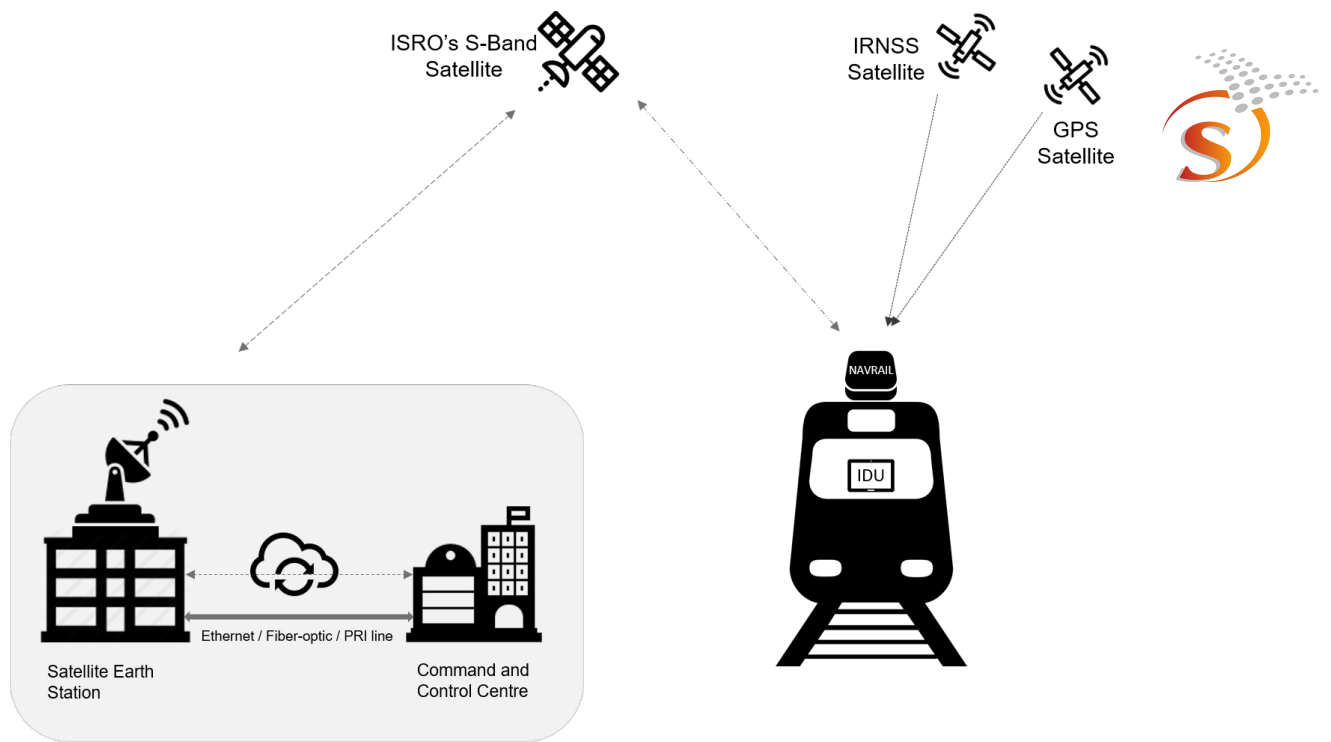
Communication via ISRO
GSAT Satellite



Interoperates with Saankhya
Hubside equipment



Configurable Data Rates and
OTA Software Upgrades



NAVRAIL Network Diagram

Applications

Government Agencies

Use Data Analytics for locomotive management to drive efficiencies

Travellers

- Receive real time information about train arrivals, departures and delays
- Receive emergency broadcasts

Railways

- Reliable Hub-to-Locomotive and Locomotive-to-Hub communication
- Real-Time Locomotive Tracking

Coast Guard

- Use GIS mapping to increase the efficiency and punctuality of transport work
- SOS and Emergency Communication

Technical Specifications

Tx Frequency band	2560 - 2590 MHZ
Rx Frequency band	2670 - 2690 MHz
Tx Data Rate	32 Kbps scalable to 512 Kbps
Rx Data Rate	1.2/ 2.4/ 4.8/ 9.6 in burst transmission
Rx Transmit Power	+36dBm EIRP
Dimensions	203mm x 156mm x 105mm
Interface	Ethernet
Casting	IP 67 Compliant

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