

Two Way MSS Terminal For Vessel Tracking

SAC, ISRO has developed low data rate two-way MSS terminal for tracking of small boats using in-house developed modem ASIC.



Operating 24x7 in Indian Water



Real time tracking of Boat displayed on GIS

Salient Features

- Forward Link: 9.6 kbps
- Return Link: 2.4 kbps
- Channel Access- Dynamic TDMA
- In-built GAGAN/ NavIC for position
- Bluetooth/Wi-Fi user interface
- Mast mountable
- IP65 compliance package
- Battery backup & light weight



End usage: Vessel Tracking

It is developed for tracking of small boat, Other possible application be used for

- Message services
- Disaster warning dissemination
- Potential fishing zone dissemination
- Asset Tracking Services

Specifications

- Single patch antenna having 2.5 dBi gain over ± 45 deg beam-width
- Terminal EIRP: 3.0 dBW min.
- 250 ms time slot for reporting
- Rate $\frac{1}{2}$ forward error correction
- QPSK Modulation
- Channel spacing 10.0 KHz

