DISTRESS ALERT TRANSMITTER – Second Generation

Space Applications Centre of Indian Space Research Organisation (ISRO) has developed the Distress Alert Transmitter-Second Generation (DAT-SG), a UHF transmitter based on NavIC module. This NavIC module supports position determination as well as reception of broadcast messages called as NavIC messaging service. The end users are mainly fishermen of small boats who can use this device for emergency messages along with reporting of position information. The unit can also help the fishermen receive other useful information like Potential Fishing Zone, weather alerts etc. as supported by NavIC messaging service.

Technology Deliverables

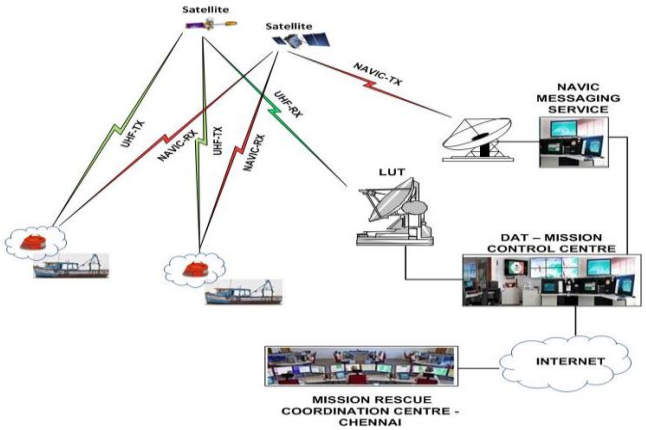
- Schematics, Gerber
- Hex code for firmware
- Limited Support for Development

Salient Features

Modulation	BPSK/QPSK
Data Rate	300bps
Amp. Imbalance	±0.3 dB
Phase Imbalance	±3 deg.
Waveform	BPSK with rate ½ FEC
Output Power	5 W [37 dBm ± 1 dB]
Power supply	7.2V Primary Lithium Battery

Present Platform Details

Microcontroller	MSP 430
Frequency	UHF
NavIC	Sky Traq



Technology Transfer

SAC/ISRO offers to transfer this technology of the **Distress Alert Transmitter-SG** developed by SAC to industries in India with adequate experience and facilities. Enterprises interested in obtaining knowhow may register and submit their proposal to IN-SPACe, Ahmedabad at www.inspace.gov.in

For more details, Contact:
Technology Transfer & Industry Interface Division (TTID), PPEG
Space Applications Centre (SAC), ISRO
Ambawadi Vistar, Jodhpur Tekra, Ahmedabad - 380 015
Email: ttid@sac.isro.gov.in
https://www.sac.gov.in/SAC_Industry_Portal

SAC Technologies