

# SAMRAT

## S-Band Satellite Phone








**SAMRAT** is a handheld, two-way, S-Band Satellite Mobile Radio Terminal, designed to operate as a common device for Android Smartphone. SAMRAT operates over ISRO's GSAT 6 Satellite, offering Mobile Satellite Service (MSS) to defence and strategic users. It enables a secure satellite communication link for voice and short messaging service to any landline, cellular, or satphone via a gateway installed at the satellite earth station.

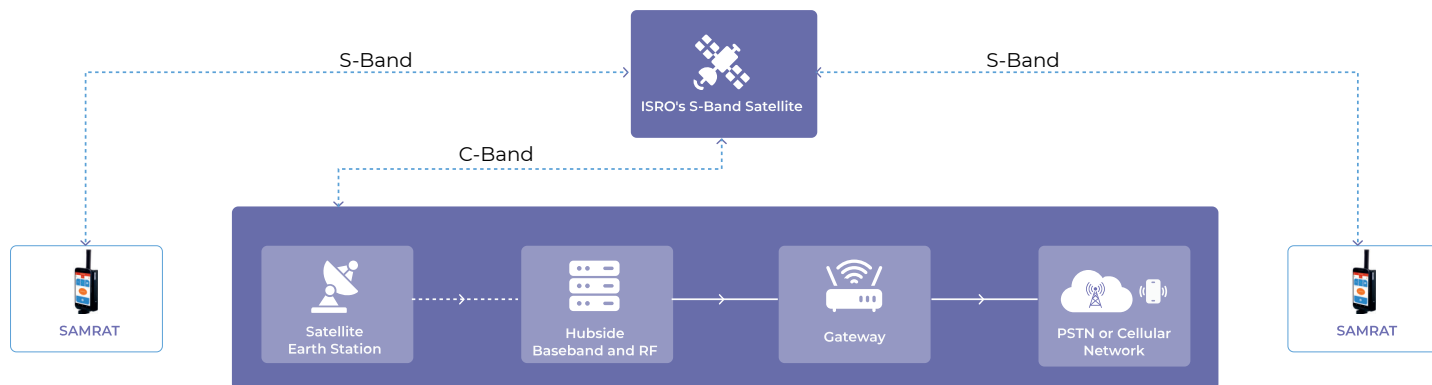
SAMRAT supports voice, short messaging, and, geo location services via a secure app installed on the Android Smartphone.

SAMRAT is a standalone S-Band modem unit with an integrated battery and an external antenna, in a compact form factor. It provides wired (USB) and wireless (Wi-fi/Bluetooth) interface to connect with host systems such as Android Smartphones and Tablet/PC.

In the wireless mode, SAMRAT can be configured as a Satellite hotspot to provide satellite connectivity to one or more pre-authorized host devices operating one at a time.

### Features

-  Portable, Handheld Companion device for Android Smartphone
-  Integrated High Capacity Battery
-  Micro USB for Wired Connectivity
-  Satellite Hotspot for Smartphone, Tablet/PC
-  Android App for Control, Configuration and Data
-  AES Encryption



**Network Diagram**

## Benefits



**Compact, light weight, portable device**



**Two-way Messaging and data communication based on hubside support**



**Offers redundancy in low mobile network coverage areas**



**High quality secure voice communication**



**S/W programmable to support customised waveforms**



**AES 256 based Encryption for data**

## Technical Specifications

### Forward Channel

Frequency band	2560 - 2590 MHz
Data Rate	2.7 Kbps, scalable upto 512 Kbps
Channel Spacing	10 KHz
Channel Bandwidth	10 KHz

### Return Channel

Frequency Band	2658 - 2690 MHz
Data Rate	2.7 Kbps
Channel Spacing	10 KHz
Channel Bandwidth	10 KHz
Transmit Power	+30 dBm EIRP typical

### Coding

SCPC-DAMA TDM	2.7 Kbps
Random ALOHA/ Signalling	2.7 Kbps
Modulation	QPSK with ½ FEC rate
Receiver Sensitivity	-130 dBm @ 2.7 Kbps

### Form Factor

Dimensions	160 x 85 x 35 mm approx
Weight	350 gms approx



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