

## 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

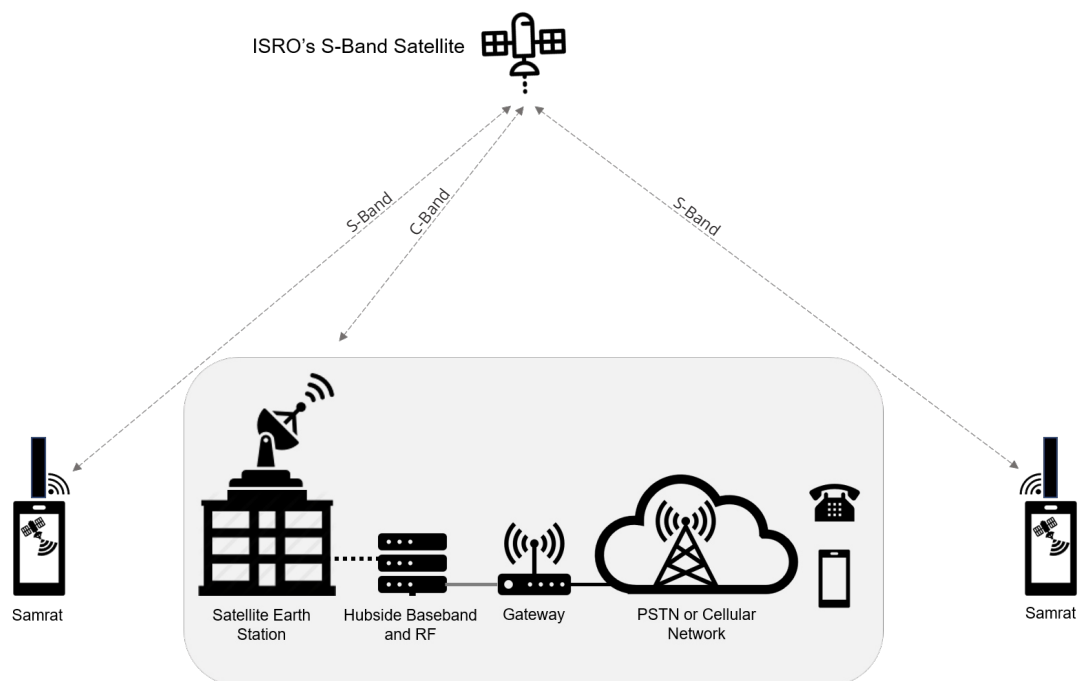


Android App for Control, Configuration and Data



AES Encryption





SAMRAT Network Diagram

## Benefits



Compact, light weight, portable device



High quality secure voice communication



Two-way Messaging and data communication based on hubside support



S/W programmable to support customised waveforms



Offers redundancy in low mobile network coverage areas



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 $\frac{1}{2}$ 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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