

TARANG

L-Band Multichannel Burst Demodulator

TARANG is industry's first SDR based Multi-channel, Multi-Rate Burst Demodulator supporting upto 48 RF channels in a single 3RU 19" rack unit. Powered by Saankhya's SDR baseband chipsets, TARANG is a fully programmable system capable of supporting a variety of standard and custom waveforms by way of software change.

Designed as a hub-side equipment for MSS network, TARANG supports reception in L-Band frequencies ranging from 950 MHz to 2150 MHz.

Easy to set up and configure, TARANG enables seamless connectivity to Network Management System (NMS) over a ethernet interface.

FEATURES



SDR based Multi-Channel,
Multi-rate Burst Demodulator



Supports up to 48 Channels
in 3RU Rack form factor



Supports variety of
waveforms by software change



12 RF cards each
supporting 4 channels

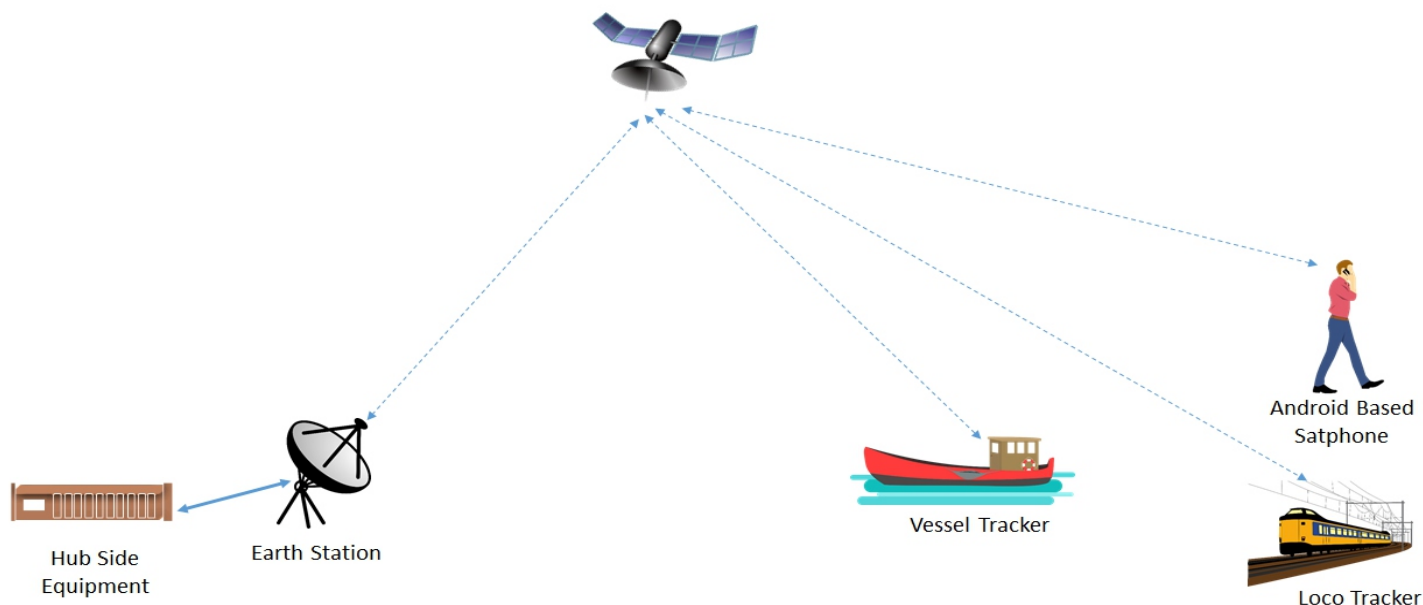


Dual Redundant
Power Supply



10/100T Ethernet port
for Control Data Interface





TARANG Network Diagram

Benefits



Hub-side equipment for remote connectivity solutions



Network Management Solution (NMS) Services



Location reporting Service



Tracking and monitoring service



Closed loop communication systems with custom waveforms

TECHNICAL SPECIFICATIONS

I/P Frequency	
Frequency Range	950 - 2150 MHz
Frequency Tuning Step	1 KHz
Frequency Acquisition Range	+5 KHz
I/P Parameters	
I/P Level Range	-40 to -75 dBm
I/P Return Loss	>18 dBm
Modulation and Coding	
Data rate	Selectable 1200 bps, 2400 bps, 2700 bps, & 4800 bps
Modulation	BPSK, QPSK
FEC	Viterbi, Rate 1/2
Performance	
BER performance	0.01 at Eb/No of ≤ 7.0 dB (Over frequency and FEC, scrambler)
Eb/No min for operation	5.0 dB
IF Interface	SMA 50 Ohm
Power Supply	
Power Supply	230 VAC \pm 10%, 50 Hz, Dual redundant

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