## **Tarang**



L-Band Multichannel Burst Demodulator



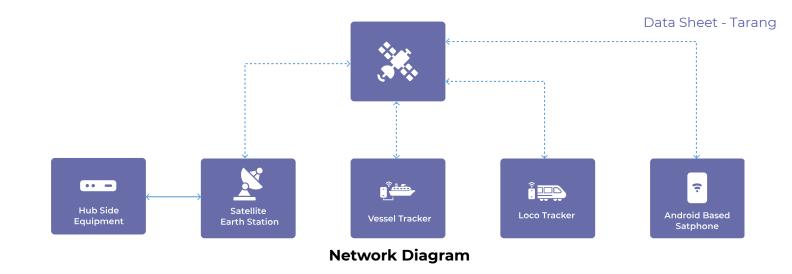
**Tarang** is industry's first SDR based Multi-channel, Multi-Rate Burst Demodulator supporting upto 48 RF channels in a single 3RU 19" rack unit. Powered by Tejas Networks SDR baseband chipsets, Tarang is a fully programmable system capable of supporting a variety of standard and custom waveforms by 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
- Dual Redundant Power Supply
- 12 RF cards each supporting 4 channels
- 10/100T Ethernet port for Control Data Interface



Benefits		
	Hub-side equipment for remote connectivity solutions	
<u> </u>	Network Management Solution (NMS) Services	
0	Location reporting Service	
•	Tracking and monitoring service	
0	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 + 10%, 50 Hz, Dual redundant		

