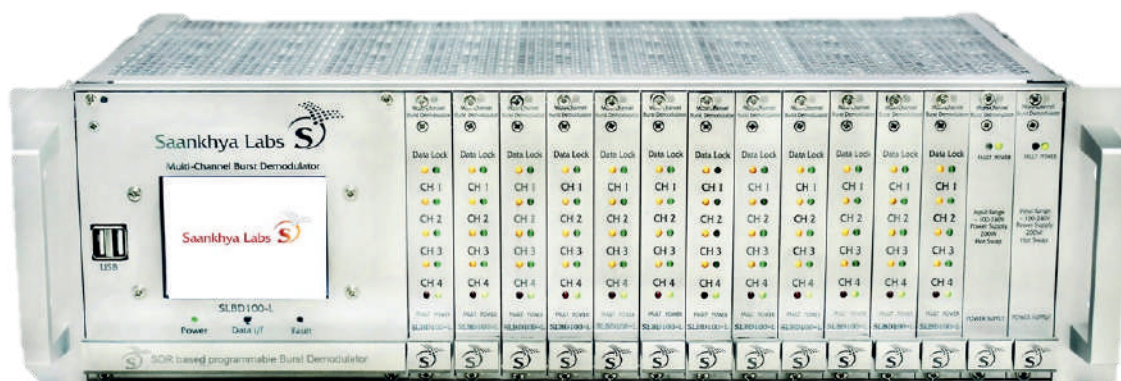


Tarang

L-Band Multichannel Burst Demodulator



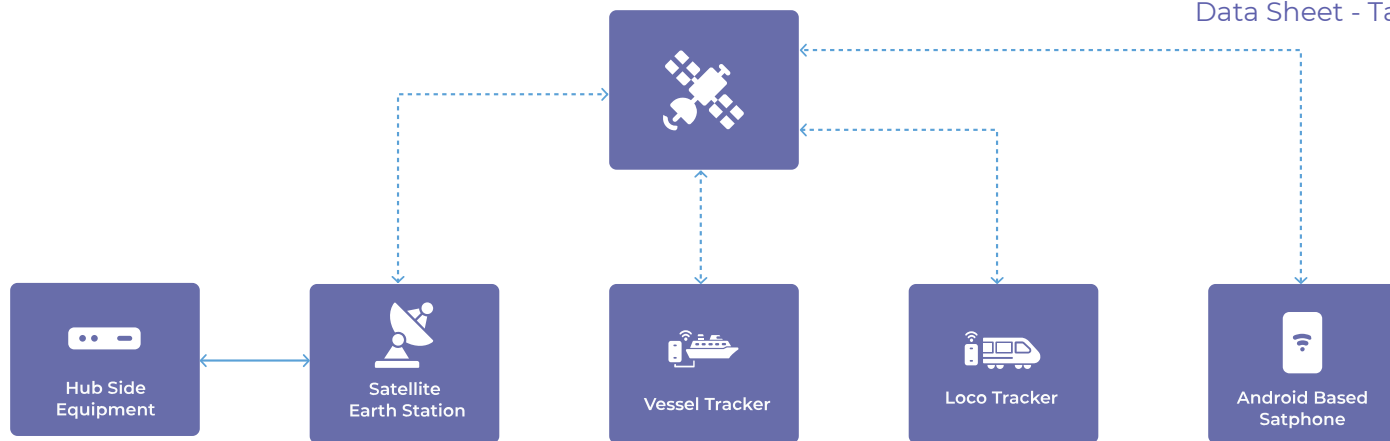
Tarang is industry's first SDR based Multi-channel, Multi-Rate Burst Demodulator supporting upto 48 RF channels in a single 3RU 19" rack unit. Powered by Tejas Networks SDR baseband chipsets, Tarang is a fully programmable system capable of supporting a variety of standard and custom waveforms by way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



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 + 10%, 50 Hz, Dual redundant
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HQ: Bangalore, India

New Delhi | Gurgaon | Mumbai | Kolkata | Chennai

www.tejasnetworks.com | +91-80-4179-4600

info@tejasnetworks.com

USA	UAE
UK	MALAYSIA
KENYA	SINGAPORE
SOUTH AFRICA	MEXICO
NIGERIA	BANGLADESH
ALGERIA	