

Gyandoot

Satellite Receive Only Terminal



GYANDOOT is a highly versatile EDUSAT receiver indigenously designed and developed by Tejas Networks. It securely delivers digital audio, video, graphics, live feed from camera and text documents, circulars (PDF, PPT, Txt, Word Files) and data content over the EDUSAT network. Powered by Tejas Networks's Software defined radio chipset, the low power, compact Satellite IP Receive Only Terminal (RoT), operates on L-Band and interfaces seamlessly to any USB host system such as Laptop or PC.

A payload agnostic software utility on the host system enables decryption of encrypted content and utilizes the compute power for software decoding and rendering of multiplexed audio-video and graphics data on the display device. Additionally, it can also receive and store video and text files on the host system. The stored data can be later be shared through local wifi network.

Features



Satellite Receiver for delivering digital audio, video, graphics and data content over the EDUSAT network



L-Band Operations via EDUSAT Satellite



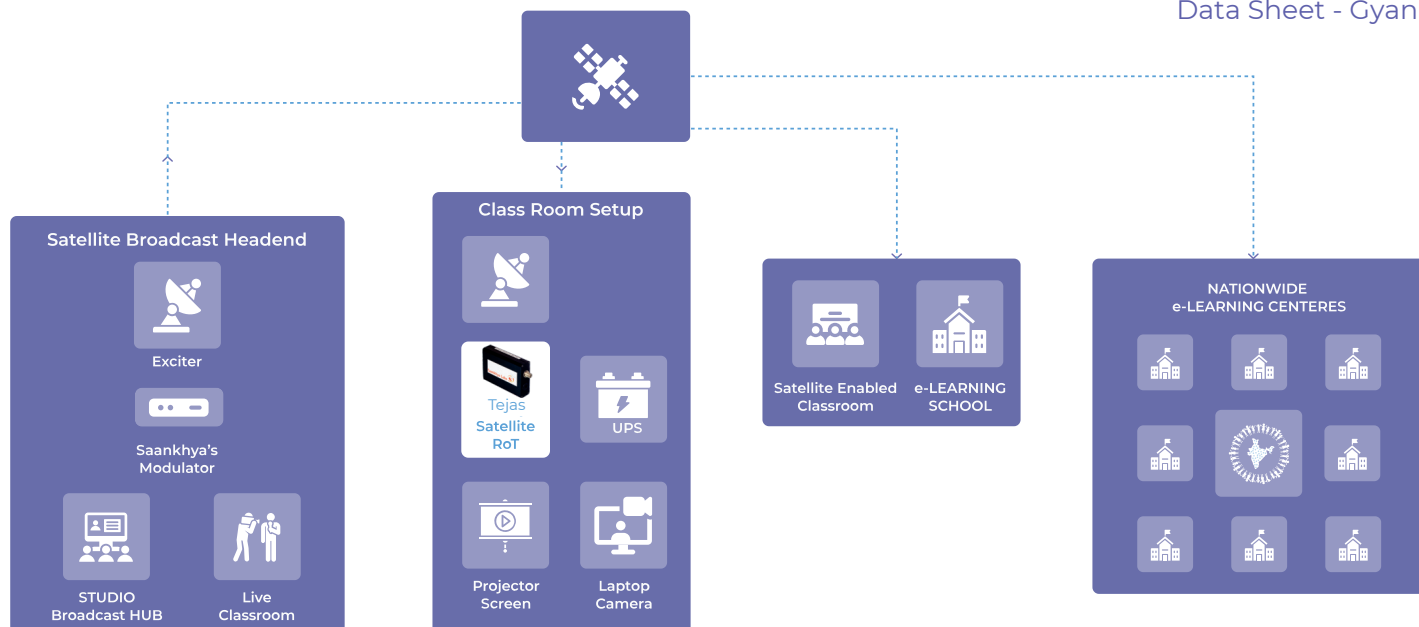
Low power, high performance & small form factor device



Operates on USB power, optionally provides power to LNB via 12V AC-DC power adapter



Supports variety of standard & non-standard communication wave forms through firmware update



Network Diagram

Applications



**EDUSAT networked Schools,
Colleges and training institutes**



Sarva Siksha Abhiyan



**National Skill
Development Programs**



**Remote area disaster warning
system proprietary satellite**

Technical Specifications

Reception Frequency

Frequency Band	950 - 2150 MHZ
Bandwidth	1 Msps to 5.5 Msps
Data Rate	144 Kbps to 5.5 Mbps
Input Dynamic Range	0 dGm to -40 dBm
Pulse Shaping	RRC with roll off 35%, 15% or 20% options

Physical Specifications

Dimensions	105 x 70 x 25 (mm)
Weight	150 gms

Battery

Power Consumption	<2.5 W (LNB powered separately)
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Modulation and Coding

Single Carrier	DVB-S
Modulation Scheme	BPSK, QPSK
FES Schemes	Viterbi Rate 1/2, 2/3, 3/4, 5/6, 7/8; K= 7 + RS (188, 204)
Configuration	Windows based configuration utility



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