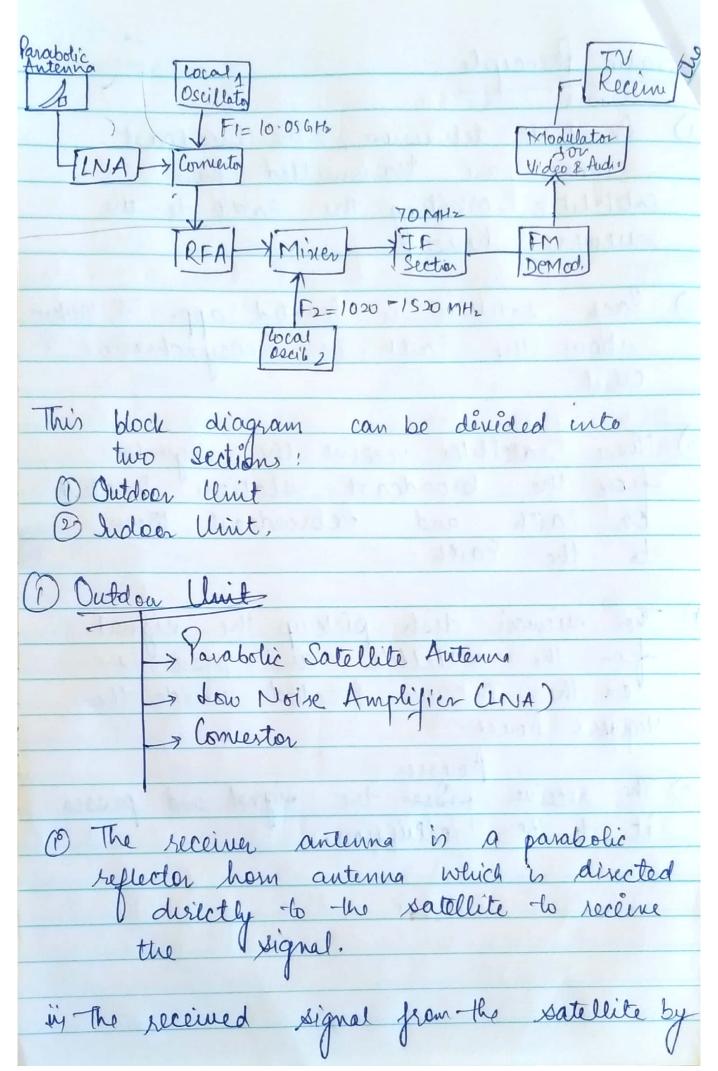
DTH stands for Direct to home television. DTH is defined reception of Satellite Rograms with a personal dish in an individual home. DTM does away with the local cable operator and buts the broadcaster directly in touch with containers · DTH Symbols the Transmission of digital video channel to home shibscribers through small dish antenna. flistory -> · DTH services were first proposed in India in 1996 but failed with approval. Due to national security, again bour was imposed on Rupert Murdoch owned Indian Sky Broudcasting It was finally approved and allowed DTH liscence in India viell cost \$ 2.14 million and well be valid for

Components of DTH:
Components of D7H:
1 Minidish Antenna
@ Coaxial Cable
(5) Connector
(4) Set top box. Block Downconverter with
Set top box. Block Downconverter with E LNBF. (Low Neise Bandpage Better) feed h
artit.
* LNBF is the part of rantenna which
is positioned in flout of the dish
to receive the signal and converts
the signal to be carried by cable
* LNBF is the part of pantenna which is positioned in flout of the dish to receive the signal and converts the signal to be carried by cable to the receiver.
A Set top box is the walk device that
Source of signal, turning the signal
into the Content which is then
displayed on the television screen.
Control of the state of the sta
The second of th
Planton and Sugar
De la

Basic Principle:
is a serie principal.
1) In DTH television, the broadcast
Signals are transmitted from
Satellites orbiting the Earth to the
niewers house.
2) Each satellite is located app. 35,700km above the Earth, in Geosynchronus
about the Earth, in Geosynchronus
Orbit.
3) The talk to be the discussion
3) these satellites receive the signals
from the broadcast station located on Earth and Rebroadcast thom
to the Earth.
to the turn
) The regimen dish pick up the signal
The riewer's dish pickup the signal from the Satellite and passes it on the seceiver located inside the
on the secence located inside the
viewer's house.
7) The receiver passes the signal and passes it to the telluision.
it to the telluision.
A silverity of the content of the silverity of the silver
and the state of t
and addition all many designs bearings and the



the antenna is applied to LNA which is a wide band amplifier. from the antenna and applies them to the convertor. The second input to this convertor is from Local Oscillatos 1. in The convertor orthret consists of a UHF signal having frequency range from 950-1450 MHz with blandwidth SOO MH2. Indoor Unit! is It consists of an RF amplifier which is applied to a channel selector to select the channel with help of the miner and local oxid oscillation 2. in An If of TOMHz's produced ily The FM Demodulator and Video-Audio Al, and synchronus pulses.

15AT:-A Very Small Apetlure Terminal, is a two way Satellite ground station with a dish antenna that is smaller than 3 meters . It is used for reliable teansinession of data, video or voice via satellite. VSAT Derices Transceiver Such as PC. A VSAT consists of two parts; a transceiver that is placed outdoors in direct LOS to salettite and a device that is placed indoor to interface the transcience with the end user's communications derice such as . The tranceine receives or sends a signal to a sablite transponder in the Stry. from ground Station computer that acts as a hub for the System

Norking of HUB Station. Each End User is Interconnected with the hub station via the satellite forming a Star Topology. . The hub controls the entire operation of the notwork. of the notwork. · For one end user to comnumicate with another, each teansmission has to first go as to the hub stateon that retsansmit it via fere fatellite to the other end user's · VSAT can handle upto 56kbps. Configurations of VSAT: . A star topology, using a central uplink Site, such as a network of operations Coulse to teamport data via satellite.

A mesh topology, when each VKAT terminal relays data wing satellite to another I terminal by acting as a hub · A combination of both Star and Mesh topologies. These configurations are utilized to nunimize the overall cost of the network. ISAT Customers: · Supermarket Shops · Chemist Shops Hotel Chains · Job centres haracteristics of VSAT: Keliable Communication Remote Communications [4-6 weeks Less Time Deployments. Easy Maintanence Simpler Network Management Less Costly.