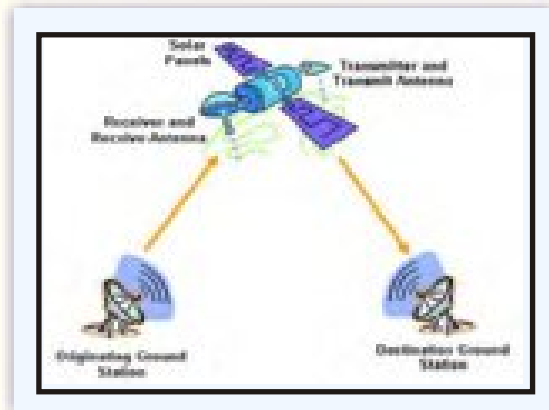




REAL SATELLITE COMMUNICATION TRAINER

MODEL - SATCOM100R

This trainer has been designed with a view to provide practical and experimental knowledge of Satellite communication with Real Satellite



SPECIFICATIONS

A. Hardware

1. Satellite Uplink Transmitter Station to transmit signals to Real Satellite
2. Satellite Downlink Receiver Station to receive signals from Real Satellite
3. **Real Satellite INMARSAT to uplink and downlink signals**
4. Satellite Frequency Band : L-Band - 1.5 to 1.6 GHz
Satellite Transmit Frequency : 1626.5 MHz 1660.5 Mhz
Satellite Receive Frequency : 1525 MHz 1559 Mhz
5. Satellite Terminal Gain : 15dB (Tx), 14.4dB (Rx)
Pointing Loss : 0.5dB
Receive Sensitivity : -143dBW/m³
6. Voice Communication
Interface : RJ-11 or Bluetooth Handset / Headset
Telephony - Handset : Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
7. Video Communication : Video Media Streaming
8. Data Communication : Data rate of up to 240 / 384 kbps
Data Interfaces: : Ethernet, Bluetooth
9. Simultaneous Voice & Data Communications
Email, Messaging, VPN, FTP, VoIP, FoIP
10. Short Message Service feature : (GSM) Text
11. Accessories : 1. Software Driver CD
2. RJ45 Cable
3. RJ11 Telephone Handset
4. Practical Manual

B. Books for Satellite Communication

: 20 Nos in pdf Format

Mp4 Video Class for Satellite Communication

: 40 Classes in Mp4 on DVD / Pen Drive

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Dealer:-

EXPERIMENTS

1. To Study Theory and Block Diagram of Satellite Communication
2. To Study Satellite Uplink and Downlink Stations
3. To Study Real Satellite Immerset and its working Characteristics
4. To Transfer Voice i.e Make Voice calling between two Satellite Base stations using Real Satellite
5. To Transfer Data between two Satellite Base stations using Real Satellite
6. To Transfer Streaming Video between two Satellite Base stations using Real Satellite
7. To Transfer Audio and Video Simultaneously between two Satellite Base stations using Real Satellite
8. To Transfer Voice and Data Simultaneously between two Satellite Base stations using Real Satellite
9. To connect to Internet and use Broadband Satellite Internet at any place
10. To Send SMS between two Satellite Base stations using Real Satellite
11. To Connect two Computers using Hamachi Server using Satellite Networking
12. To Send and receive file between two Computers using Sigma Server using Satellite Networking
13. To understand different types of Protocols and Commands
14. To understand different type of Monitoring Software
15. To Study Adhok and Infrastructure Satellite Networking
16. To make different Applications and Projects using Satellite Wireless Network
17. To demonstrate and understand different types of faults like Link Fail operations.
18. To calculate Link Budget for Satellite Communication Networking