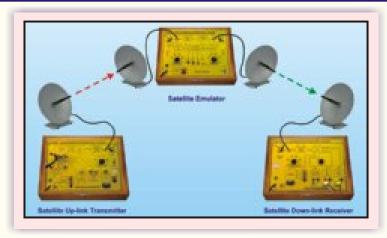


SATELLITE COMMUNICATION TRAINER

MODEL - SATCOM100

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



FEATURES

- * Simultaneous communication of three different signals at each up-linking frequency.
- * 2390 2510 MHz PLL microwave operation
- * Receives & demodulates 3 Signals Simultaneously.
- * Communicate Audio, Video, Digital data, PC data, Tone, Voice, function generator waveforms etc.
- * Communication of external broad band digital and analog data and base hand signals
- * Choice of different transmitting and receiving frequencies.
- * Built-in microphone and speaker for Voice and Audio link
- * Detachable Dish Antenna at each station

SPECIFICATIONS

A. Books for Satellite Communication : 10 Nos in pdf Format

Mp4 Video Class for Satellite Communication : 40 Classes in Mp4 on DVD / Pen Drive

- **B.** Satellite Uplink Transmitter
- * Transmit three signals simultaneously at each up-linking frequency
- * 2414/2432/2450/2468 MHz up-linking frequencies selectable by up-down switch and LED indication.
- * 4 MHz clock frequency
- * Wide band RF amplifier, No manual matching required.
- * Frequency UP-Down Switch and LED indication.
- * FM Modulation of Audio and Video
- * 5.55 MHz Audio and 8MHzVideo Modulation
- * Detachable Dish Antenna
- * Radiated Power output 25mW (approx.) with power control.
- * Transmit Audio, Video, Digital/Analog data, PC data, Tone, Voice, function generator waveforms etc.
- Separate terminals provided for different inputs.
- * Power Supply 220 Volts, +/-10%, 50Hz

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Dealer:-

2. Satellite Downlink Receiver

- * Receives and demodulate three signals simultaneously.
- * Intermediate Frequency 479.6 MHz (approx.)
- * 2414/2432/2450/2468 MHz fix frequency tuning
- * Built in speaker for audio and video output
- * Detachable Dish Antenna
- * Power Supply 220 Volts, +/-10%, 50Hz

3. Satellite link Emulator

- * Transponder with selectable frequency conversion
- * 4 downlink frequencies 2414/2432/2450/2468 MHz
- * Rotary Switch and Tuner for selecting Uplink frequency
- * Link Fail operation
- * Detachable Dish Antennas
- * Radiated power 25mW (approx.) with Variable gain control
- * Power Supply 220 Volts, +/-10%, 50 Hz

EXPERIMENTS

- 1. Understanding Basic concepts of Satellite communication.
- 2. To establish a direct communication link between Uplink Transmitter and Down link Receiver using tone signal.
- 3. To setup an Active satellite link and demonstrate Link Fail operations.
- 4. To establish an AUDIO-VIDEO satellite link between Transmitter and Receiver
- 5. To communicate VOICE signal through satellite link
- 6. To change different combinations of uplink and downlink frequencies and to check the communication link
- 7. To transmit and receive three separate signals (Audio, Video, Tone) simultaneously through satellite link.
- 8. To transmit and receive function generator waveforms through satellite link
- 9. To transmit and receive PC data through satellite link