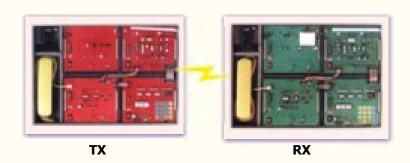


MOBILE TELECOMMUNICATION TRAINER

MODEL - MCT2000

This trainer has been designed to understand mobile wireless-telecommunication's hardware and software concept and procedure.



SPECIFICATIONS

1. Transmitter / Receiver Two different units for communication, one acting as transmitter & other

acting as receiver

2. Communication Methods: Full duplex & half duplex. 3. Channel access Multi Channel access.

Base unit: 46.51 to 46.97MHz, Mobile unit: 46.695 to 49.99MHz. 4. Freq. Range

5. Channels 15 duplex channels.

Bandwidth/channel 25 Khz. 7. Modulation : FM Freq. Stability < 5 ppm

over 20 db ,SINAD at -100 dBm 9. Receiving sensitivity

10. Auto Channel Scan Time: less than 200 ms.

11. Modes selectable auto & Manual.

: LED indicators for different functions 12. Indicators

13. Battery Protection : Overcharge protection for battery function.

Different Blocks should be provided for Power Supply, Audio Ckt ,Control ckt , 14. Blocks

Radio frequency.

15. Experimental Support Detailed manual with experiments designed should be provided to conduct

experiment.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

Sigma Trainers and Kits

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EXPERIMENTS

- 1. Introduce to Full Duplex Mobile Telecommunication System.
- 2. Power supply
- 3. Limiter and Condenser Mic
- 4. Compressor
- 5. Pre-emphasis and De-emphasis
- 6. Expander
- 7. Band Pass Filter and Squelch Circuit
- 8. PLL Oscillation 1
- 9. PLL Oscillation 2
- 10. Transmitter
- 11. Receiver
- 12. Microprocessor and Control Circuits
- 13. Half Duplex Transmitting
- 14. Half Duplex Receiving
- 15. Full Duplex Communication
- 16. RF Interferences