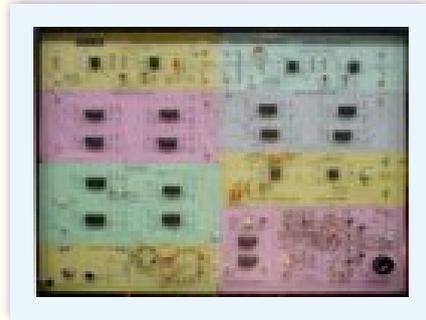




VOICE COMMUNICATION USING (DSSS) DIRECT SEQUENCE SPREAD SPECTRUM - TRAINER

MODEL - DSSS100V

This trainer has been designed with a view to provide practical / experimental knowledge of Voice communication using Direct Sequence Spread Spectrum.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. On Board Pseudo-Noise (PN) Code generator.
Bits : 16 bits
Clock Frequency : 100 KHz
3. On Board Digital Data generator to generate any binary input word of
Word Length : 8 Bits.
Bit Clock Frequency : 6.666 KHz
Data Format : NRZ.
4. Spreading Code Mixer and Unipolar to Bipolar Converter section.
5. Modulator Type : Coherent Binary PSK Modulator
6. Demodulator Type : Coherent Detector.
Low pass Filter cutoff Frequency : 105 KHz
Code Dispreading : Using EX-NOR gate.
7. All parts are soldered on single PCB with complete circuit diagram screen-printed in multicolor.
8. Standard Accessories :
1. A Training Manual
2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of Direct Sequence Spread Spectrum Modulation & Demodulation.
2. To generate and receive DS-SS modulated signal.
3. To observe effect of different PN codes on DSSS Out put.
4. To observe spectrum of DSSS Signal on spectrum analyzer.

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

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