

COMMUNICATION LAB *FM MODULATION & DEMODULATION KIT*

COMMUNICATION LAB

1. VLSI SPARTAN 3E XCS500E
2. ARM SM LPC2148 KIT
3. DIGITAL ELECTRONICS LAB
4. EMBEDDED SYSTEM LAB
5. SYSTEM DESIGNING LAB



Introduction:

An Frequency Modulation and Demodulation Trainer Kit is a “Voltage-Controlled Oscillator (VCO), is a circuit that provides a varying output signal (typically of square-wave or a triangular-wave form) whose frequency can be adjusted over a range controlled by a DC Voltage.

The Phase Lock Loop in the FM Modulation and Demodulation has three types :

- * Free - running,
- * Capture,
- * Locked or Tracking.

Specifications:

- Carrier generator circuit which generates the carrier signal
- $\pm 12V$ D.C. at 100 mA, IC Regulated Power Supply
- Audio frequency modulating signal
- Frequency Modulation circuit with buffer stage at the output
- Demodulating circuit
- Adequate no. of other electronic components.
- Adequate no. of test points are provided to verify the signals through CRO.
- Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.



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