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### **Product Name:**

Trainer Board to study Time Division Multiplexing/ Demultiplexing

### **Product Code:**

EC366



## **Description:**

Trainer Board to study Time Division Multiplexing/ Demultiplexing

## **Technical Specification:**

Trainer Board to study Time Division Multiplexing/ Demultiplexing

Time Division Multiplexing & Demultiplexing Trainer

TDM -Modulator: Using IC 4066

TDM -Demodulator: Using 4066 and LM324

Low pass filter: 4th order with cut-off frequency of 3.4khz

Interconnections: 2mm Banana Socket

Test Points: 9 Nos.

Power Supply: 230 V 10%, 50/60 Hz

Modulation

Pulse amplitude modulation

Receiver clock

Phase lock loop generates receiver clock and channel information

Low pass filter

4th order butter worth filters (3.4 KHz cut off)

Switch faults

8 switch faults are provided on board to study different effects on circuit

Test points

39 test points are provided on board to observe various intermediate signals

Experiments:

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Principles of analog signal sampling and reconstruction Effect of different sampling frequencies Effect of varying the sampling frequency duty cycle Study of 2nd order and 4th order low pass butter worth filters Effect of switch faults

# **Naugralabequipments**

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