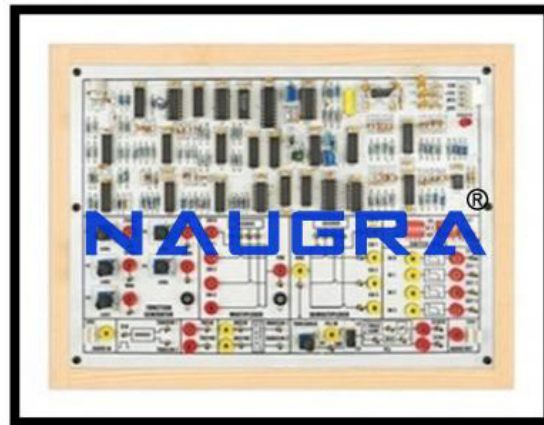


Product Name :
Trainer Board to study Time Division Multiplexing/ Demultiplexing

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:

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

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