

**Product Name :**  
Advanced Fibre-Optic Digital Transceiver Trainer

**Product Code :**  
NLAB-ELECTRONICSAB240010

**Description :**

Advanced Fibre-Optic Digital Transceiver Trainer

**Technical Specification :**

Fibre-Optic Digital Transceiver Trainer has been designed specifically for the study of encoding methods used in digital fibre optic. transmission system.

Practical experience on this board carries great educative value for Science & Engineering Students.

Object:

Design and study of a Fibre-optic digital link

Study of rise-time and fall-time distortions

Study of propagation delay.

Encoding methods for fibre-optic digital transmission

Base band or Non Return to Zero (NRZ) Transmission

Return to Zero coding (RZ)

Non Return to zero inverted coding (NRZI)

Biphase Coding

Manchester Coding.

Features

The board consists of the following built-in parts:

Fibre-Optic digital transmitter @ 660nm

Fibre-Optic digital receiver

Two Potentiomet

Two Isolated IC regulated D.C. power supplies

ers to vary, RIN (input resistance) of receiver and RTH (Threshold resistance) of receiver.

Encoder IC

Decoder IC

Two Crystals

Two reset switches resetting encoder and decoder

Adequate no of other electronic component

Mains ON/OFF switch, Fuse and Jewel light

The unit is operative on 230V +10% at 50Hz A.C. Mains

Adequate no. of patch cords stackable 4mm spring loaded plug length, metre.

Weight : 3 Kg. (Approx)

Dimension : W 340 x H 110 x D 210

Other Apparatus Required:

Cathode Ray Oscilloscope 20MHz

## Naugralabequipments

**Website:** www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

**Address:** 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003