Phone: +91-9896600003

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Product Name : Advance Fiber Optic Trainer	Product Code : NLAB-ELECTRONICSAB240003
Description:	
Advance Fiber Optic Trainer	
Technical Specification: Single board Fiber Optic Trainer Kit to study the characteristics of Fiber using Digital and Analog techniques.	
This kit also facilitates with digital and analog Modulation & Demodulation of	
FEATURES:	
660nm and 850/950nm Transmitter.	
Two Nos. Of Photo Detector.	
On-board Sine & Square wave generator.	
On-board Manchester Coding/ Decoding Technique.	
On-board Noise Generator & PRBS Generator	
On-board Bit Error Rate Measurement.	
On-board PC to PC Communication.	
On-board 4th Order Low Pass Filer.	
On-boad Fault Switch.	
In-Built Power Supply.	
SPECIFICATIONS:	
Transmitter - One Fiber Optics LED having peak wavelength of emission 6	60 nm. One Fiber Optics LED having

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peak wavelength of emission 850/950 nm

Receiver - Two Fiber Optic photo detector.

Modulation Techniques - Digital communication with Pulse Code Modulation (PCM) using Motorola MC

Manchester Coding/Decoding Technique

White Noise Source output type Noise Generator

Amplitude of 0 to 5Vpp

16 Bit switch selectable PRBS generator

Clock of 32, 64, 128 KHz.

Bit error rate measurement of 8 bit counter with LED indication upto 255 count.

Time Division Multiplexing, 16 Channels (64 Kbits/Sec).

Two Frame Marker of 8 bit user selectable markers in alternate frames.

Data Rate of 1.024 MBits/Sec.

2 channels Voice PCM with Telephone Hand sets (A Law).

Analog Input of 1Vp-p.

Analog Bandwidth of 3.75KHz

FWHM Spectral Width of 100nm.

I Drivers : Analog & Digital

I AC Amplifiers: 1 Nos.

I PLL Detector: 1 No.

Filters: 1 No 4th order Butterworth 3.4 KHz cut-off freq.

Analog Band Width: 350 KHz.

Digital Band Width: 2.5 KHz.

Functional Generator: 1Hz. To 100 KHz sine wave (amplitude adjustable) 1Hz. To 100 KHz square wave (TTL)

CODEC Link: Two Telephone Hand set provided

Serial PC to PC link: 9 Pin D-type RS232C TX and Rx link (Max. 115.2 Kbps Baud)

Switched Faults: 8 Switch Faults are provided to study different effects on circuit.

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Fiber Optics Cable: Connector type Standard SMA (Sub miniature assembly). Duly polished fiber at both end for Numerical Aperture Measurement.

Cable Type :Step indexed multimode PMMA plastic cable

Core Refractive Index: 1.492.

Clad Refractive Index: 1.406

Numerical aperture: Better than 0.5.

Acceptance Angle: Better than 60o

Fiber Diameter: 1000 microns.

Outer Diameter: 2.2mm.

Fiber Length: 5m & 1m.

Power Supply: Built in DC power supply, 230V + 10%, 50 Hz.

Accessories Included: Manuals, set of patch cords.

Interconnections: 2 mm Banana Sockets.

Naugralabequipments

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