

**Product Name :**  
Data Communication Trainer

**Product Code :**  
NLAB-ELECTRONICSAB160007



**Description :**

Data Communication Trainer

**Technical Specification :**

Blue Short Links (10"): 8 Nos.

RS-232 Serial Cable: 02 Nos.

DB25 Parallel Port Cable: 2 Nos.

RJ11-RJ11 Connector Cable : 02 Nos.

Plastic Fiber Cable Multimode: 01 Meter.

Experimental Manual: 01 No.

Power Supply Cable: 01 No.

**LIST OF EXPERIMENTS:**

Study of Serial and Parallel Port.

Study of Serial Communication.

Study of flow controls in Serial Communication.

Study of Protocols in Serial Communication.

Study of Fiber optic Communication.

Study of Modem Communication.

Study of Wire less Communication.

Study of Parallel Communication.

Study of Printer Interface using Parallel Port.

#### SPECIFICATIONS:

Serial Communication : RS-232 port (9 pin & 25 pin)

Parallel Communication: 25 Pin LPT Port.

Wire Less Communication:-

Infrared Transmitter: IR LED 920nm

Infrared Receiver: Direct TTL output

Baud Rate: 2.4kbps (max)

Carrier Frequency: 38Khz

Optic Fiber Communication:-

Transmitter: Peak wavelength of emission 660nm visible Red

Receiver: Photo detector with TTL Logic output.

Baud Rate: 115kbps.

Fiber Optic Cable:-

Type: Plastic Fiber, Step Index, Multimode

Lenght: 1 meter

Modem Communication:-

Modulation: FSK Modulation

Mark Frequency: 300KHz

Space Frequency: 200KHz

Demodulation: PLL Detector

Mark Frequency: 300KHz

Space Frequency: 200KHz

Baud Rate: 19.2kbps (max)

Twisted Pair Link: RJ 11 Telephone Connector

Data Indication: 8 bit Received Data Display.

Switch Faults:-

4 Switch Faults are provided on-board to study different effects on circuit.

## Naugralabequipments

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