

**Product Name :**  
Bluetooth Technology Trainer

**Product Code :**  
NLAB-ELECTRONICSAB210020



**Description :**

Bluetooth Technology Trainer

**Technical Specification :**

The Bluetooth Technology Trainer, is designed considering the International Communication Standards. It is helpful for students and researchers in the field of RF and IT engineering to understand the basic concepts of Bluetooth Technology. Based on Class 2 Bluetooth System having range up to 10 meters and is fully compliant for Data Communication. It consists of two identical modules and any one of these can be selected as a Master or Slave for Communication. This Training System can be connected to PC for operation and execution of Bluetooth AT Commands. Bluetooth standard AT commands can be run on the graphical LCD display also with the help of keyboard.

Graphical LCD display

Bluetooth enabled devices detection

Designed considering all the Communication Standards

Data Generator is provided on-board

User friendly software

Equipped with UART & USB port

## Computer independent Training System

Test points are provided to observe signals

### Technical Specifications

Carrier Frequency : 2.40 GHz to 2.48 GHz

Bandwidth : 80 MHz

Modulation : GFSK, 1Mbps

No. of Channels : 79

Channel Intervals : 1 MHz

Frequency Hopping : 1600 hops / sec

Transmission Power : +4dBm max (2.5mW)

Transmission Range : 10 meter approximate

Output Interface : UART and USB

Power Supply : 230V  $\pm$ 10%, 50 Hz

Operating Voltage : 5V

Operating Temperature Range : - 20°C to 85°C

Antenna : Whip Antenna

### Scope of Learning

Study the functioning of Bluetooth Trainer

Pairing of Slave unit with Master unit using software

Study of AT commands

Data Communication using UART

Data Communication using USB

Study of Communication using internal data

Study of RF signals

Optional

Handheld Spectrum Analyzer - 3.3 Ghz

## Naugralabequipments

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