

**Product Name :**

Bluetooth Trainer & Bluetooth Technology Lab Training System for Vocational Training and Didactic Labs

**Product Code :**

CON-017-NE

**Description :**

Equipment for Education, Engineering and Vocational Training - Bluetooth Trainer & Bluetooth Technology Lab Training System - 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

## Naugra Export

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