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

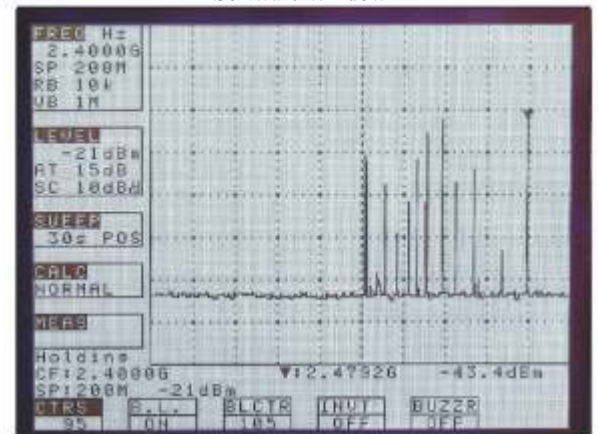|		
Carrier Frequency	:	2.40 GHz to 2.48 GHz
Bandwidth	:	80 MHz
Modulation	:	GFSK, 1Mbps
No. of Channels	:	79
Channel Intervals	:	1 MHZ
Frequency Hopping	:	1600 hops / sec
Transmission Power	:	+4dBm max (2.5mW)
Transmission Range	:	10 meter approximate
Output Interface	:	UART and USB
Power Supply	:	230V ±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
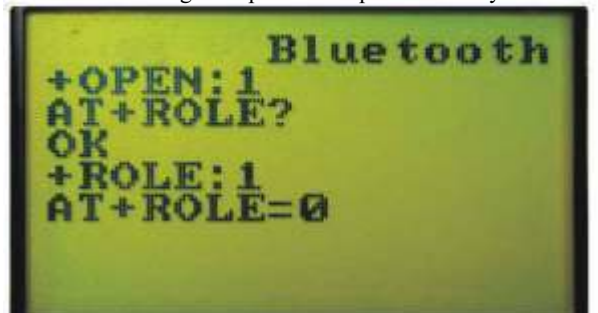- Study of RF signals

Optional
Handheld Spectrum Analyzer - 3.3 Ghz

Software Window

FHSS signal captured on Spectrum Analyzer

AT Commands on Graphical LCD Display

Note: Specifications are subject to change.