Bluetooth Trainer carries Bluetooth module with integrated Bluetooth core and radio/antenna circuit. It supports Bluetooth v2.0+EDR, SPP, I/O profile, SCO connections and digital I/O. The Trainer is designed to study the BluetoothWireless Technology and communication between BluetoothModems and Phone. It includes on board peripherals which can be used for designing various small scale application. Also user can also interface the trainer toAndroidphoneandPCusingGUIapplication.

In order to establish a communication, this trainer system is supplied as a pair.

Specifications

- Integrated2.4GHz, IEEE 802.15 transceiver
- FrequencyRange   : 2402MHz–2480MHz
- TransmitPower   : +18dBm
- RFDataRate   : 250kbps
- 2AIO(Analog Input)   : On Board Temperature Sensor &
-   VariableVoltageSourceforADC.
- 5DIO (Digital input output)   : OnboardRelay,LED&Switch
- Power Supply   : +5VDC~0.5A
- OSSupport   : XP/Vista/Windows7
- USBA-B Interfacing facility withPC
- IntegratedChipAntenna
- OnboardAudioCoder for audio communication
- User friendlyGUIforConfiguring BluetoothModem

On board peripherals

Relay

- 5VSPDTMechanical Relay
- NO&NCLEDindicator
- ScrewTerminal BlockConnector for external device

TemperatureSensor

- OperatingTemperaturerange   : 0°C - 120°C
- Scale Factor   :10mV/°C
- ADC

AudioCoder

Switch&LED

- SixSMDLEDs (3-Red for power, 1-Green for Status,2-RedUser accessible).
- ThreeTacticalSwitchforRESET, FACTORYRESET&BT-MODE
- FourToggle SlideSwitches (2-User accessible,PowerON/OFF, AudioCoderON/OFF)

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

Experiments

Configuration of the Bluetooth Module
- Configuring Bluetooth as Master
- Configuring Bluetooth as Slave

CommunicationWith Two Bluetooth Module
- Data Communication with Master Module to Slave Module

Interfacing The Peripherals
  a) Interfacing on board Peripherals
- Interfacing with LEDs and SWITCHES
- Interfacing with RELAY
- Interfacing with ADC using Variable Resistor
- Interfacing with TEMPERATURE SENSOR
  b) Interfacing remote board Peripherals
- Interfacing with LEDs and SWITCHES
- Interfacing with RELAY
- Interfacing with ADC using Variable Resistor
- Interfacing with TEMPERATURE SENSOR
- Voice Communication Between Two Bluetooth Modem
- Data Communication Between Bluetooth Modem And Android Mobile (Available with the user)
- Study of AT Commands

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302022, Rajasthan, India,
Mob./Whatsapp: +91-9829132777; Email: info@tesca.in, Website: www.tescaglobal.com