

Bluetooth Module MC20BT



Bluetooth MC20BT Module is an extension module for Nvis Microcontroller development platforms. The module has been designed for students and practicing engineers to gain invaluable practical experience on the principle and applications of microcontroller & Bluetooth module. The objective is to have a clear understanding of how Bluetooth module is interfaced and controlled with microcontroller.

Bluetooth modules are embedded solutions providing wireless endpoint connectivity to devices. The Bluetooth modules can transmit and receives the data wirelessly by using two devices.

The Bluetooth operates at the frequency of the 2.4 GHz and also used in many small ranges of applications.

Features

- Wireless communication via Bluetooth
- On board 6nos GPIO
- On board 2 digital input switches
- On board RX and TX interface
- On board CTS and RTS pins
- On board LED for indicator
- On board Relay Interface
- On board +5V and +3.3V Supply
- Module can be used as a standalone
- Expansion connectors for Microcontroller
- Every pin is marked in order to make the work easier
- USB board for PC interface

Technical Specifications

Indoor/Urban range : Up to 10m Outdoor RF line-of-sight range: Up to 100m RF data rate : 480 Kbps Frequency : ISM 2.4 GHz : On board Antenna Network topologies : Point to point

Digital IOs : 6 nos Digital input : 2 switches

LED & Relay 1no Supply Voltage : 5V DC

Power Supply : USB port and from Nvis

> 500X Series Microcontroller development platforms.

Interface : 20 pin FRC cable compatible

> with Nvis 500x series development platform

Weight : 220 gms (approximately)

> Patch cords-5nos. 20pin FRC cable-1no.

Package contains : Bluetooth dongle-1no.

USB cable (A to B type)-1no.

Note: This module is compatible with Scientech 620X Series and Nvis 5001A/2/3/4B/5 Series Microcontroller development platforms.

Scope of Learning

- To study and interfacing of Bluetooth module
- To study of Bluetooth pairing.
- To study and learn to Interface Bluetooth module with microcontroller
- To study and learn to use internal peripherals (I/O) of Bluetooth module
- To study and design Wireless Sensor Network using Bluetooth modules
- To study and design Automation applications

Application

 Home Automation
Security System Robotic

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