

Operational Description

Overview

The BT-505 is a highly integrated single-chip Bluetooth 5 dongle with a USB 1.1 interface. It combines a BT Protocol Stack (LM, LL, L2CAP, GATT, RFCOMM, SPP, and LE), BT Baseband, modem, and BT RF in dongle.

The dongle is based on Realtek RTL8761BUV chipset. The RTL8761BUV Bluetooth controller complies with Bluetooth core specification v2.1/3.0/4.0/5.0 and supports dual mode (BR/EDR + Low Energy Controllers). It is compatible with previous versions, including v2.1 + LE. For BR/EDR, it allows active links in either slave mode or master mode. For Low Energy, it supports multiple states and allows multiple active links in slave mode. The links in BR/EDR and LE can be active simultaneously.

System Structure

The BT-505 has a built-in 40MHz crystal oscillator circuit to provide a stable, controllable system clock.

The BT-505 is powered by USB 5Vdc.

The antenna is PCB antenna without any connectors.