

Description of Operation Principle

This device is designed to communicate with PC or other host equipments through standard USB interface on one side of the dongle, and propagates microwave of Bluetooth signals from host interface through the antenna on the other side. The Bluetooth signals traveling in the air are received by the antenna of the dongle and delivered to the Bluetooth module already qualified by BQB. The Bluetooth module includes band-pass filter which filters the noises out of the operation frequency, and balun which transfers single signal to the balance ones. Then the received singles pass to the Bluetooth chip, down-convert to the frequency compatible with the base-band. Finally, the singles are transferred to USB signals by base-band controller and communicate the with host devices.

Features of Equipment under Test

Items	Description
Type of Modulation	GFSK
Number of Channels	79
Frequency Band	2402 MHz ~ 2480 MHz
Carrier Frequency	See section 1.5 for details
Max. Peak Power	1.94 dBm
Antenna Type	Printed Antenna / 2.95 dBi
Testing Duty Cycle	42.19%
Test Power Source	DC 5V from host equipment
Temperature Range (Operating)	-10 ~ 50 °C