

# Operational Description for Bluetooth Keyboard

- This device is Bluetooth data transferring System
- The frequency is from 2.402GHz to 2.480GHz ,use internal antenna to work 10M distance,
- The main chips is BCM20730.
- The USB interface of this device is used for charging, It can't used for data exchange with PC.
- the device designated with the following general information and technical specification as following:

Main Chipset	BCM20730
Antenna Type	PCB Antenna
Antenna Gain	1.87 dBi
Frequency Band	2402-2480MHz
Modulation type and data rate	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps)
Channel Number	79 channels
Bluetooth Version	V3.0+EDR
Oscillating Frequency	24MHz

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- Keyboard :
- (1)Once a key or multi keys of keyboard are pressed or released, the signal change will be detected by MCU.
- (2)The MCU converts these signals into HID data packet.
- (3)The MCU send HID data packet to Bluetooth Module via uart interface.
- (4)The BT module transmits the modulation signal on frequency of 2.4GHz using FHSS modulation.
- The EUT is a Bluetooth wireless keyboard, and The USB interface of this product is for the charging purpose only without the data transmission function