Circuit Description

The 24MHZ crystal oscillator drives the base of Y1. The output of CYW20730(U1)has the matching network consisting R07、C013、C016 that limit the harmonic content and effect the proper coupling of the antenna to the output stag.

There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by DC 3.7V battery.USB charger port : DC 5V,100mA.

Operation Descriptions:

This product is a wireless Bluetooth keyboard

The transmitter is powered by 3.7 V DC and the transmitting frequency is crystal controlled.

The operation is achieved by different combinations of form pulse modulating signal on the 2400MHz carrier frequency. When the NTAG is positioned in the RF field, the high-speed RF comm unication interface allows the transmission of the data and enable the

Bluetooth pairing:

Remarks: The EUT continues to transmit while power on. Modulation by IC; and type isGFSK, π /4-QPS K,8DPSK modulation. Bluetooth Version is Bluetooth 3.0.

Keyboard workflow explanation: Broadcom keyboard has three parts circuit, respectively by a combination of CYW20730, KEY specific matrix, Boost circuit:

First part: KEY specific MATRX way of working is from external struck clavier key-press

trigger keyboard below the conductive film and then by MCU On reading and judgment,

Part two: MCU its work style and computer CPU a truth, is digitally manipulated,

discrimination, deal with external given Instructions; Then transmit the data via wireless 2.4G form.

Part three: In-charge circuit, into charger the battery of Li. With the leds for the status of battle charging

Operation Frequency: 2402-2480MHz Modulation: GFSK,π/4DQPSK, 8DPSK Antenna Type: PCB Antenna Transfer Rate: 1/2/3 Mbits/s Number of Channel: 79 Channels Antenna Gain(Peak):0 dBi