Circuit Description

Bluetooth headset for motorcycle helmets operates in 2.4GHz band .Frequency hopping technology with AFH Bluetooth, This product incorporates a separate baseband processors and integrated 2.402GHz to 2480MHz transceiver, Bluetooth 2.0. Use 2.4 GHz band wireless data communication with bluetooth deceive. Wireless module frequency coverage: 2402-2480MHz, Channel:79, data modulation mode: FSK. Antenna type: IFA, Antenna gain:2.15dBi(Max). Bluetooth with a matching key, Pairing and connection LED direct-mount batteries 3.7V, turn the power switch, the LED light in 2.04 seconds. Press the pairing key, Pairing starts blinking, blinking LED in time: 1.28 seconds off once, paired up to 180 seconds. Enter search status. start Host Bluetooth device finder, search for Bluetooth devices around the Host, such as Bluetooth wireless is found, entering the line; to Host last display appears when installation is complete, ", now Host the registration was successful, Bluetooth wireless is available; If no, restart the connection; And the Host connection OK, turn off the power switch to reopen, Bluetooth wireless automatically and Host connection; This product incorporates CSR Bluetooth Single Chip for HID, an 16MHz oscillator, coupled with the control, When through the Balur filter ,the KALIMBA-BC03 receiving the data from the antenna ,to the output SPI Data bus, the receive data to the CSR chip of KALIMBA-BC03,the chip will through the encoder deal with the data, and to output ports of the speaker, USB read/write and etc; And when speaking to the microphone, interrupt controller and the event timer run the Bluetooth software stack and control the radio and host interfaces. A 16-bit reduced instruction set computer (RISC) microcontroller is used for low power consumption and efficient use of memory. the chip of KALIMBA-BC03 receive the signal from the microphone ,after the encoder , The radio synthesiser is fully integrated onto the die with no requirement for an external Voltage Controlled Oscillator (VCO) screening can, varactor tuning diodes, LC resonators or loop filter. The synthesiser is guaranteed to lock in sufficient time across the guaranteed temperature range to meet the Bluetooth specification. the signal will send out from the antenna to the connecting Bluetooth deceive. To finish the Communicate between the Bluetooth deceive .