

SBT516 Bluetooth Headset schematic diagram description

1. Schematic diagram description

The SBT516 Bluetooth headset based on IS1681N chipset, It is support the headset profile and handfree profile. It is compliant to Bluetooth v3.0 specification.

U1(IS1681N) is a single chip Radio and baseband IC for Bluetooth 2.4GHZ systems.it provides Bluetooth RF, baseband and some power regulator functions.

U2 is serial ACE24C32, it use for store the configurations of MMI.

X1 is a crystal oscillator, provides 16MHZ clock reference.

SBT516 has Blue and Red indicator lights to show different working state, and has MFB, Volume up, Volume Down buttons to operation the headset.

2. The Signal Path description

When the SBT516 headset connects to a mobile phone, the built-in MCU will control the RF modem to process the baseband signal, indicate the working state by the LED. When uses the headset, the voice can be picked by microphone. There are Multi-function Button, Volume up button and Volume Down button for you to increase the volume or decrease the volume of the speaker.

Power Supply of this product with rechargeable polymer lithium-ion battery, power supply voltage is 3.7V, charging input voltage DC 5V, the USB port supports only charging function; it does not support other function.