

BTDF112 Bluetooth carkit schematic diagram description

1. Schematic diagram description

The 112 Bluetooth carkit based on CSR BC6145 QFN chipset, It is support the headset profile and handfree profile. It is compliant to Bluetooth V2.1 + EDR specification.

References to the document <The BTDF112 Bluetooth carkit schematic diagram>

U1(BC6145) is a single chip Radio and baseband IC for Bluetooth 2402-2480MHZ systems.it provides Bluetooth RF, baseband and some power regulator functions. It is integrated DC +1.8V power supply. +1.8V uses for the PIO pull up such as the buttons.

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

XT1 is a crystal oscillator, provides 16M clock reference.

U3 is LDO IC , it supply the working voltage to MIC .

U4 is charger ic .

U5 is power amplifier IC;

BTDF112 uses PCB copper antenna for RF transceiver.

BTDF112 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 BTDF112 carkit 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 carkit, 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.