
B-Cube Description

1. Battery Charger and Power Supplier

U1 on main board is the battery charging circuit, when 5V charger is presented, the circuit starts to charge the battery.

U2 on main board is the 3.0V power supplier for entire application.

2. Led Indicate

Q1 and D2 are the Led circuit, it indicates the application working or charging state.

3. Bluetooth Core Module

U3 and related circuits on the main board is the Bluetooth RF and Baseband module. It controls the Bluetooth RF signal and the LED / Button events.

R4 and R6 are the battery voltage monitor resistors.J3 is the module programmer port. UART port and R16, R17 is the data receive port from sensor module.

4. Wire Connection

The group of T13 to T18 indicates the wire soldering pads to the Connect board.

5. Connector Board

J5 is the charger connector, for charging the battery. T3 and T4 wires the power to the main board's battery charger.

J4 is the external probe connector, for signal sampling. T7 to T10 wires these signal to sensor module.

S2 and related circuits is the power on/off controller, press the S2 button for power on/off. T5, T6, T11, T12 connect these signal to main board's Bluetooth core module.

6. Unused section

On main board, C8, C9, C12, C13, R2, R5, R11, R12 are the audio filter, not be used on this application.