

Operation description

The main function of BlueCheck: Collect fingerprint and match with the fingerprint databases of this machine or match with the far-away place fingerprint databases via this blue tooth module, and then display the result on the LCD, at the same time giving a certain sound and light designation.

In the electric circuit of the Bluecheck, after the fingerprint collected by Sensor, the fingerprint will be send to the microprocessor to process. Such as saving the fingerprint, running the customer software and storing certain quantity fingerprint template. The blue tooth module is used to transmit the wireless data to far-away computer. Meanwhile the USB also can communication with the far-away computer via USB data bus, including data transmission, software renew, and the battery recharge etc.

The main function of the voltage examine circuit of LCD display, LED designation and the buzzer: The LCD shows the work menu and circulates result, at the same time shows the battery usage circumstance; The LED and buzzer are used as the subsidiary hint tool. For example, giving some necessity's hints of the BlueCheck work appearance and working result. Under the condition of shutting down refreshing, as the power supply designation, LED shows the condition of the charging. The electric voltage examination circuit provides the electric voltage condition of the battery.

Real time clock circuit provides the precision interval time. The key and switch circuit charge for the processing of the top key on the BlueCheck, and opening or shut down of the BlueCheck.

The USB-RS232 conversion circuit changes the Uart signal of the microprocessor to USB signal, integrating the BlueCheck with computer through the USB signal transmission fashion.

The power supply management circuit and refresh the circuit to be responsible for provide the various work electric voltage according to the BlueCheck needs, and provide the designation when battery electric voltage is low; the device will shut down automatically for protection battery at exhaustion of the battery energy. When battery refreshing, this management circuit guarantee the battery safety refresh, and can stop refresh automatically when electricity be filled with.