

Circuit Description

MID mainly by the Rockchip RK3168,DDR3,NAND,WI-FI module, MicroSD, keypad, LCD display, power supply components.

Rockchip RK3168 core processor is quad-core Cortex-A9, the main oscillator frequency is 24MHz, RTC clock 32.768KHz.

Memory controller interface directly connected to the DDR3, CPU RK3168 through the memory bus to exchange information with DDR3 memory.

DDR3 memory from memory NAND or MicroSD in the implementation of the program and read data,but also read and write through the CPU.

WI-FI function primarily by RTL8188ETV chip to achieve communication through the USB interface & Rockchip RK3168, 2.4GHz antenna and LAN connection. And power supply By the PMU .

NAND / SD card is mainly used for storing programs and data, through SDI interfaces and Rockchip RK3168 to connection.

Touch panel for the general Capacity Touch Panel, controlled by the GSL1680.

Key is the system of auxiliary functions, mainly for the realization of a number of commands and data entry.

LCD is used to display the current reading content from Rockchip RK3168 (text or image)

Power section includes PMU(AXP202) and the DC to DC,LDO provides 3.3V,1.5V,1.2V and so on for each part of the loop (Rockchip RK3168,DDR3,INAND,MicroSD,Touch panel, LCD) the required power.

Wi-Fi module functional description

RTL8188ETV is a WLAN 11 b/g/n USB module, which fully supports the features and Functional compliance of IEEE 802.11 b/g/n standards.

It supports up to 150Mbps high-speed wireless network connections.

It is designed to provide excellent performance with low power

Consumption and enhance the advantages of robust system and

cost-effective. It is targeted at competitive superior performance, better power

Management applications.

Wi-Fi Antenna

PIFA antenna signal feed point is at 50 Impedance during connecting with WiFi RF module ;

Ground(GND) feed point is at flat level