

Operation Description

This product is a display with card reading function, which consists of USB Hub board, wide-format board, touch screen circuit module, card reader module, backlight driver board, key board, main board and LCD display.

1. The keypad controls the standby and power-on modes of the monitor.
2. The USB Hub board receives the 9-36V DC voltage input from the outside, and part of it is converted into 5V DC voltage through the DC TO DC circuit, which is supplied to the card reader module and the touch screen circuit module, and the other part is input to the wide-format board through the DC TO The DC circuit is converted into a 12V DC regulated output and supplied to the main board.
3. The wide board is a regulated output module, which converts the externally input DC 9-36V voltage into DC 12V and supplies it to the main board module stably.
4. The card reader module is composed of power chip XC6206P332PRN, MCU chip STM32F103RBT6, NFC controller chip PN5321A3HN/C106, RS232 chip SP3220EEA-L/TR, and PCB antenna. The external system uses the USB interface and the module for power supply and data communication; the 5V power supply is stepped down to 3.3V through the power chip XC6206P332PRN to supply power to the system. a. The MCU chip communicates with external systems via USB. b. MCU communicates with external system through serial port and RS232 chip connection. c. The MCU communicates with the NFC controller chip through SPI. d. MCU controls the buzzer through GPIO. The NFC controller performs data interaction with the card through the PCB antenna.
5. The main board has DP/HDMI/VGA three-way optional display signal input, which is output to the LCD screen through the video decoding circuit; the main board also controls the backlight to drive the backlight board switch.

Product Name: 21.5 inch Capacitive Touch Monitor

Trade Mark: N/A

Model Name: LKX21ECCRBD-ILC

FCC ID: 2AWNGLKX21ECCRBD

Operation Frequency: 13.56MHz

Number of Channels: 1CH

Modulation Type: FSK

Antenna Type: Coil Antenna

Antenna Gain: 0dBi

Crystal Value: 8MHz, 27.12MHz

Battery: N/A

Power Source: DC 12V from battery