Multi-function card
MF630

User manual

Beijing KYSTAR Technology Co.,LTD

Directory

I.product description

1.1 Applications

The MF630 multi-function card is used for LED environmental monitoring and related control, which can monitor the ambient temperature in real time to ensure the environment used by the display screen.

It can monitor the environmental brightness and automatically adjust the brightness of the display screen according to the environment brightness value and the previously set brightness adjustment algorithm to achieve energy saving and environmental protection and ensure the best viewing effect of the display screen; multi-channel control relays can be used to achieve on-site Remote switch management of equipment such as fans, air conditioners, and power distribution cabinets.

1.2 Features

● Support RS232 serial communication.

● Support Gigabit network port communication.

● Support 8-way power switch control.

● Support 4 optical probes

● Support automatic brightness adjustment.

● Temperature and humidity detection.

● Support audio output.

● With timing function, it can replace timer and delayer.

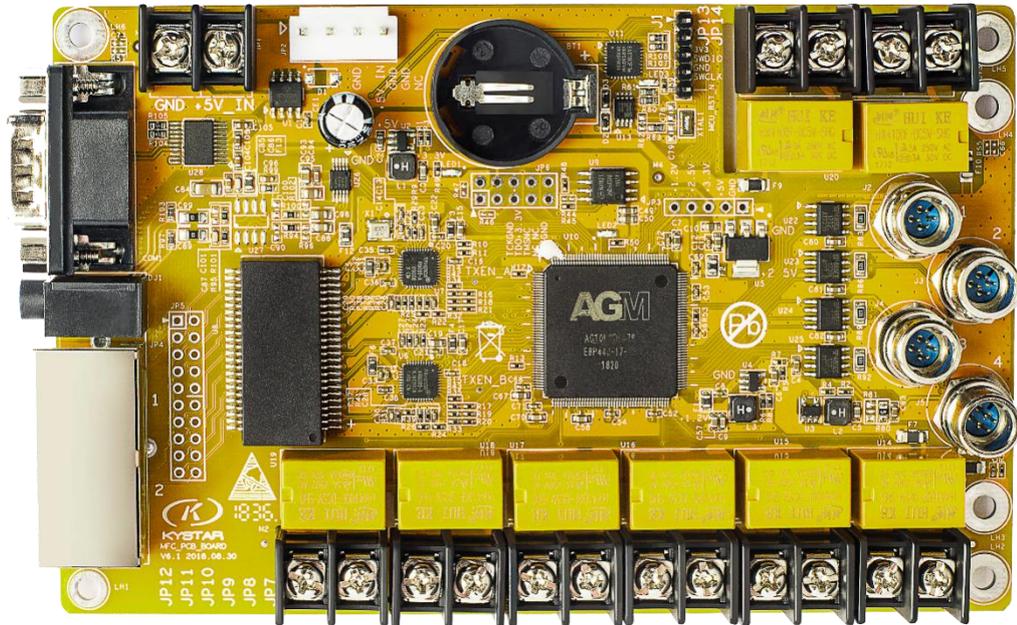● Comply with EU RoHS standards.

● Passed 3C, CE, FCC certification

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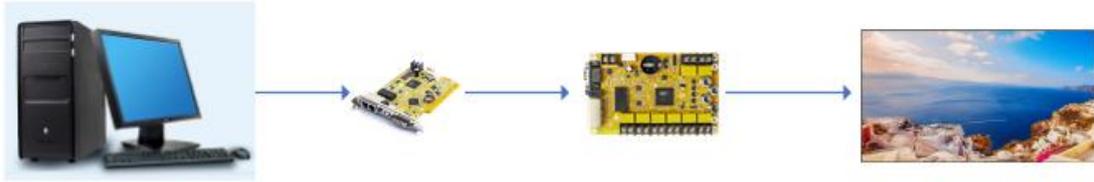
II. Appearance

Figure 1 MF630 multi-function card

III．Interface definition

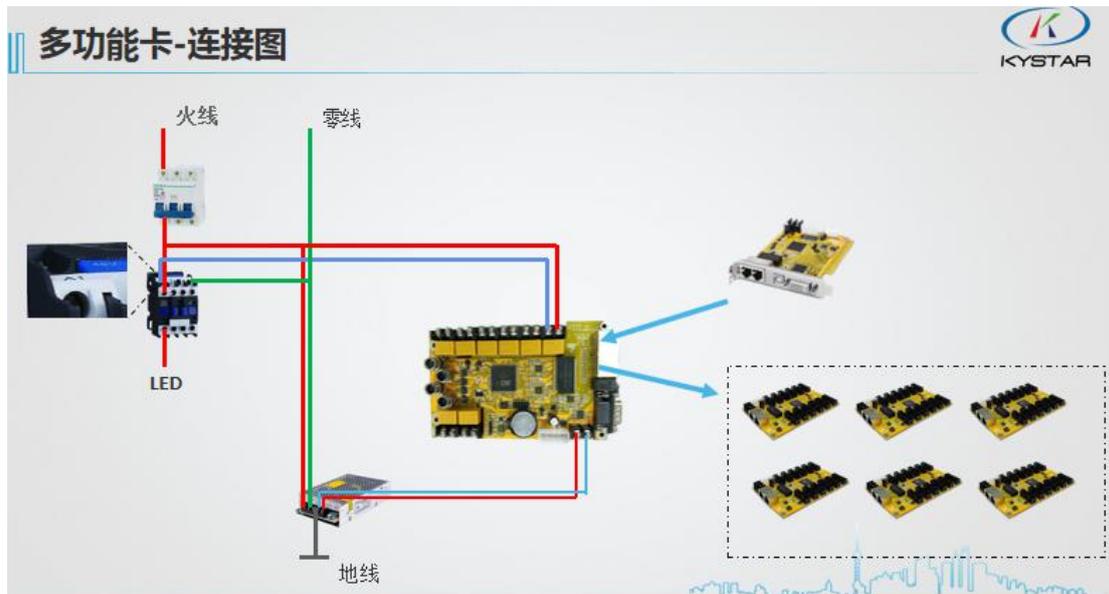| interface	Function definition
COM1	Serial port
DJ1	Audio output interface
JP4	Ethernet interface
JP2 ,JP1	Power input interface
J2,J3,J4,J5	Optical probe and temperature and humidity probe interface
JP7-JP13	Contact on-off terminal

IV. Wiring diagram

4.1 Flow chart

Description:

① The computer video cable is connected to the sending card

② Sending card network port 1 is connected to the multi-function card, and network port 2 is connected to the large screen

③ Multi-function card enters (send card) and exits (to large screen)

4.2 Schematic diagram of distribution box

V. Multi-function card settings

5.1 Power management

5.1.1 Manual control

①Power management time

Read: read the current internal time of the multifunction card

Settings: Set the current computer time to the internal time of the multifunction card

②Set content:

Refresh: Refresh the current relay status

Small box: the number of selected relay channels is a group, when starting one, all the relays of the current group are started

Setting remarks: Set the remarks of the power supply connected to the relay, such as: "air conditioning"

Start delay: when starting multiple relays at the same time, the starting time interval of each relay

All start/emergency stop: turn on/off all relays

Group start/group stop: On/off checked relay

5.1.2 Automatic control

① Click on the automatic control to switch to the automatic control interface

② Click Edit to set the automatic control power time and the number of relay channels

③ Click Add → Confirm

④ Check the automatic control

⑤ Click to send → cure all

Note: Temporary manual time period setting in control state: In the case of automatic control, add temporary manual time, this time relay is controlled by manual control, beyond this time, it will still be controlled in automatic control mode
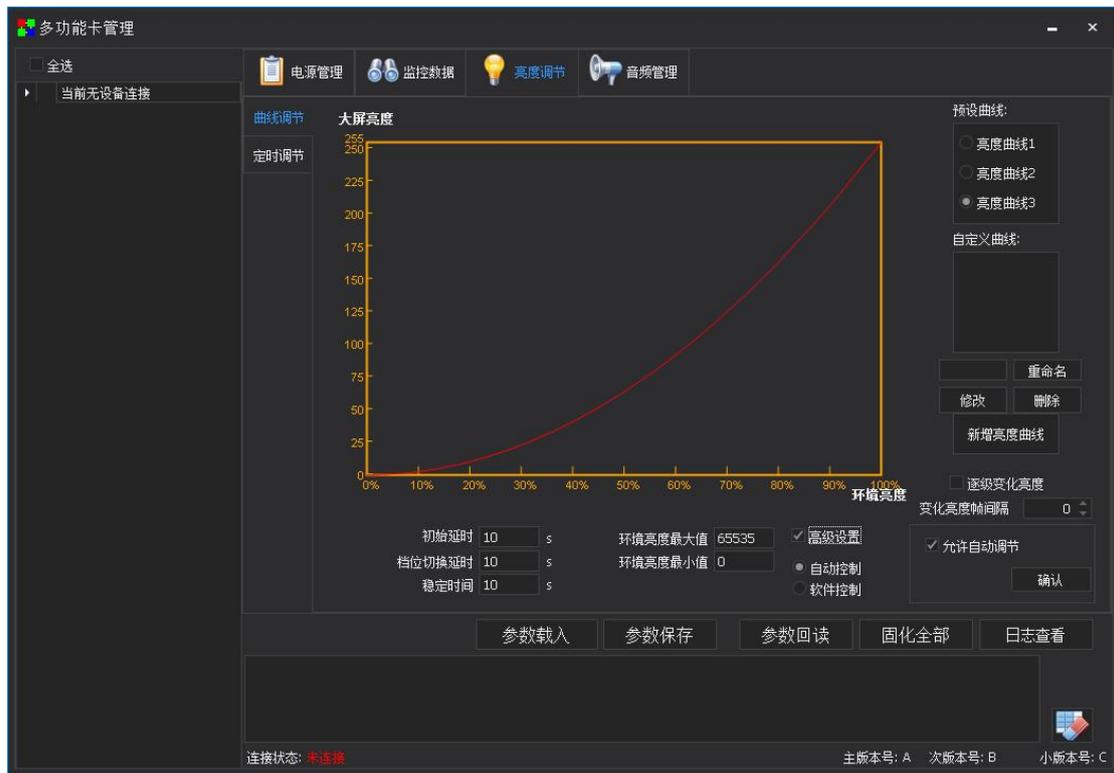
5.2 Monitoring data

①The monitoring data interface can display the value of environmental variables detected by external probes (light probe, temperature and humidity probe, smoke sensor)

②Set the warning value of each variable, when the environment variable reaches the set value, it can automatically turn on/off the multi-function card relay

③ Turn off the large screen power when there is no signal: when the multi-function card can not detect the sending card signal, turn off all relays
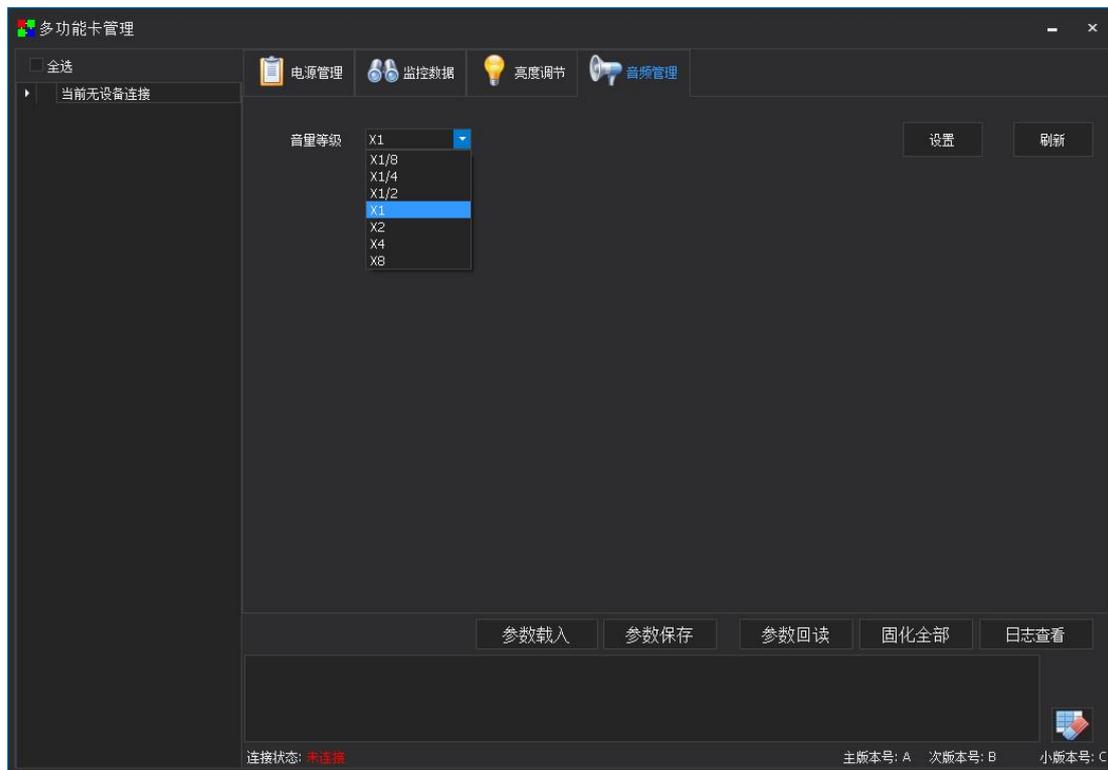
5.3 Dimming

Brightness adjustment is divided into curve adjustment and timing adjustment

① Curve adjustment: adjust the brightness of the large screen according to the ambient brightness

② Timing adjustment: switch to a fixed brightness value according to time

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5.4 Audio adjustment

Audio adjustment can set the volume output size of the multi-function card

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