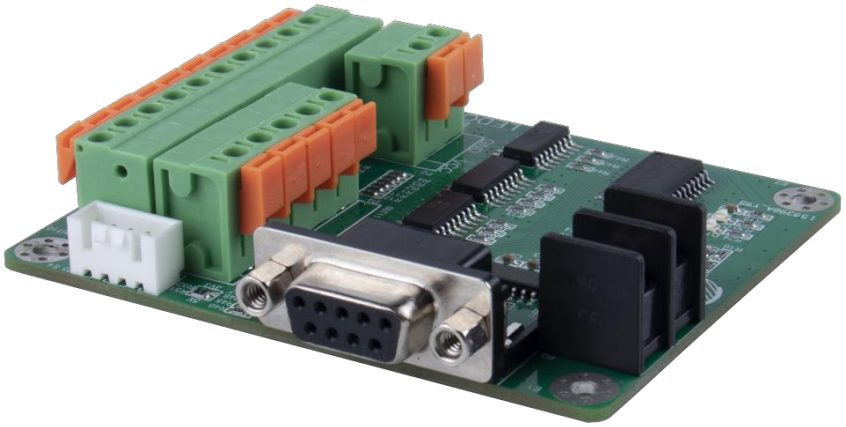
SYSOLUTION



Interactive Central Control Card R73

Product Specification

Version：Ver.1.2

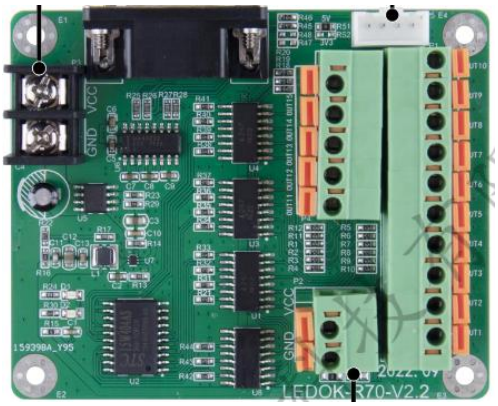
Update

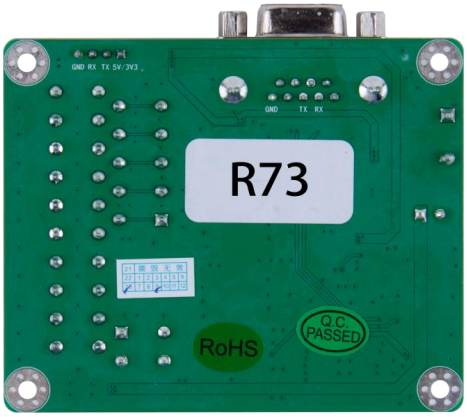
No.	Version	Brief description of updates	Revision Date
1	Ver.1.0	Initial Release	2025.01.08
2	Ver.1.1	Modify content	2025.02.24
3	Ver.1.1	Modify content	2025.02.28

Note: The content of the document is subject to change without notice.

Product Images

Interactive Central Control Card





Sensor

Notes: the ports connect with sensor to trigger the content.

Product Images

Principle Description:

Install the interactive board R73 and multiple tapping sensors in the backside of led module, so when a person taps the surface of led screen, will generate a physical impact signal.

As soon as the tapping sensor catch the impact signal, will convert it into electrical signal and transfer to LED controller Y50 or M70B media player box.
Then media player box will following the pre-set rules to switch different contents on the LED screen. The tapping action can be designed as a single tap by default. Every time there is a tap occurs, the led screen will update to the next program content---switching command.

For example, there is a LED screen in a shopping mall to display advertisements, it is designed a single tap can convert the current ads of clothing promotion into the food promotion; two consecutive taps will switch to the entertainment event preview section, this will enabling passing customers to quickly browse the information they are interested in and improving the efficiency of ads delivery.

To make customers intuitively understand that the tapping operation has successfully triggered, the led screen can have short-lived special effect animations when switching programs, such as fade-in and fade-out, rotation switching and flashing borders. Meanwhile, a small indicator icon, such as a dynamic hand-shaped pattern or an arrow, can be set in the corner or a fixed position of the led screen, to indicate to

users that the tapping operation has just been carried out and the program has been updated, enhancing the feedback effect of human-machine interaction.

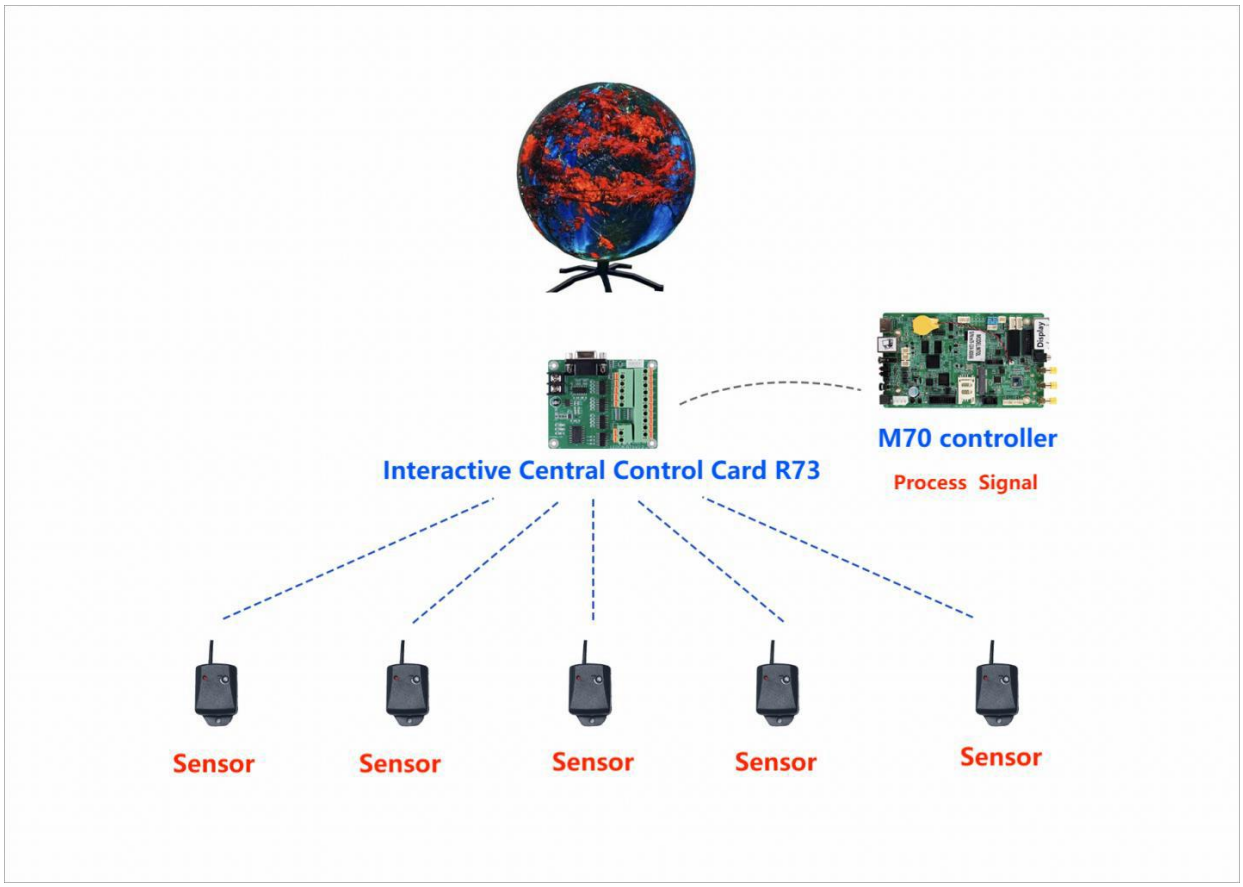
Users can flexibly arrange the program playback sequence of the led screen according to the usage scenarios and requirements through the software LEDOK Express. For example, in the application of museum exhibition guided tours, the staff can sequentially set the introduction videos of different exhibition halls, pictures of cultural relics and text descriptions as a program sequence according to the visiting route. During the visit, the audience can view the detailed information of each exhibition hall one by one in the preset order through the tapping sensor, making the tour more smooth and autonomous.

The LED screen can also be used for displaying real time message, such as stock market quotations, sports event scores, traffic conditions, etc.

In sports pub, when customers tap the led screen to switch to the live football match score page, the led screen will synchronously update key data such as the latest numbers of goals scored and the status of the players, meeting the audiences' needs for real time information.

Through the implementation of the above - described functions and solutions, the function of the tapping sensor to update the LED screen programs can bring users a more convenient and highly interactive information display experience. It is widely applicable to multiple fields such as advertising and promotion, exhibition display, and intelligent interaction.

Diagram


M70 controller
Process Signal
Interactive Central Control Card R73
Sensor
Sensor
Sensor
Sensor
Sensor

Working conditions

Indicators instructions

Mark number	Name	Functions
D2	Power light	Solid on: means 3.3V voltage is normal Other:means 3.3V abnormal
D4(Run)	Run light	Solid on: means system running normal Off: means system is under resetting status Other: means system running abnormal

Interface instructions

Mark Number	Name	Functions
J1	power port	+5V power input
J9	DB9 female port	RS232 serial port
J4	IO power	P-VCC: recognize IO instruction device is power on or not P-GND: Share the same ground with the IO instruction device.
J2	IO command input	No.1 to No.10 in sequence
J3	IO command input	No. 11 to No. 20 in sequence

Press key instructions

Mark Number	Name	Functions
S1	Reset	Press: make the system enter reset status Stop: make the system enter running status

Physical Installation: Install the tapping sensor in a position that is easy for users to operate. Usually, it is advisable to choose the back surface of the control terminal of the LED display screen, and ensure that the installation is firm.

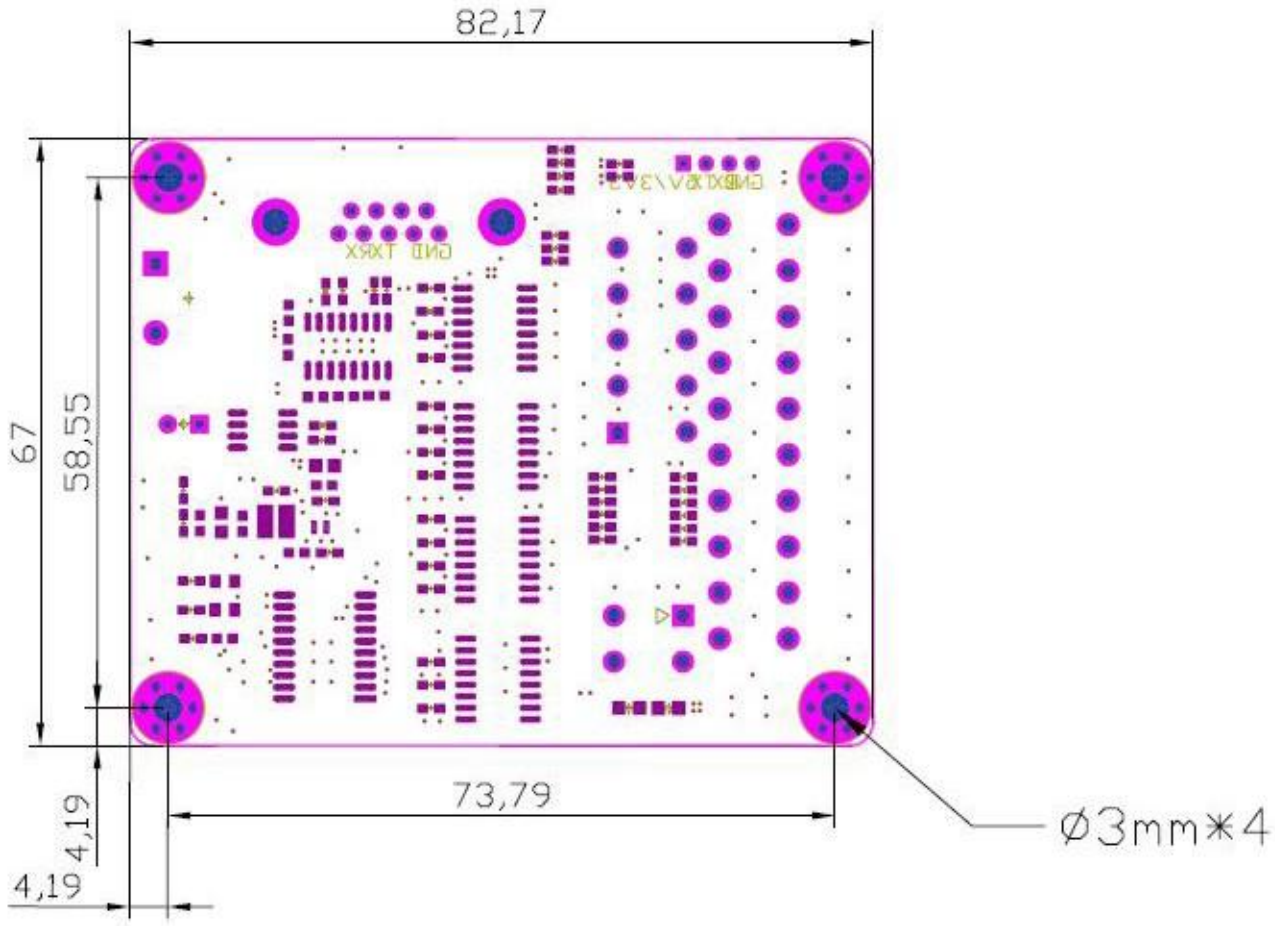
One sensor can detect an area of approximately 0.5 square meters. Multiple sensors can be installed in parallel to prevent displacement or damage caused by daily touches.

Debugging Process: First, conduct functional tests on individual hardware components. Check whether the sensitivity of the tapping sensor, the program burning and operating status of the micro controller, and the display effect of the LED screen are normal.

Then, carry out overall joint debugging, with a focus on debugging the corresponding relationship between the tapping operation and the update of the LED screen programs. By repeatedly tapping the sensor, observe whether the program switching on the LED screen conforms to the preset logic.

For any problems that arise, promptly troubleshoot hardware connection failures or optimize the software algorithm.

Dimension



Unit：mm

Dispatching list

Product model	Quantity
R73	1
Sensor	5
4pin TTL line	1

Notes

1. It is strictly prohibited to plug in or unplug the connection cable while it is powered on.

2. Try to avoid touching the chips and their pins on the product to prevent damage caused by static electricity.