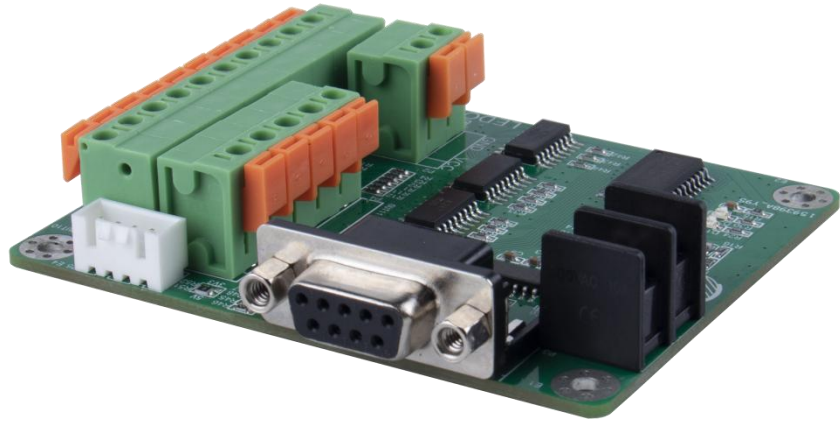




Program SwitchingPanel R70

Product specification

Version: Ver.1.0

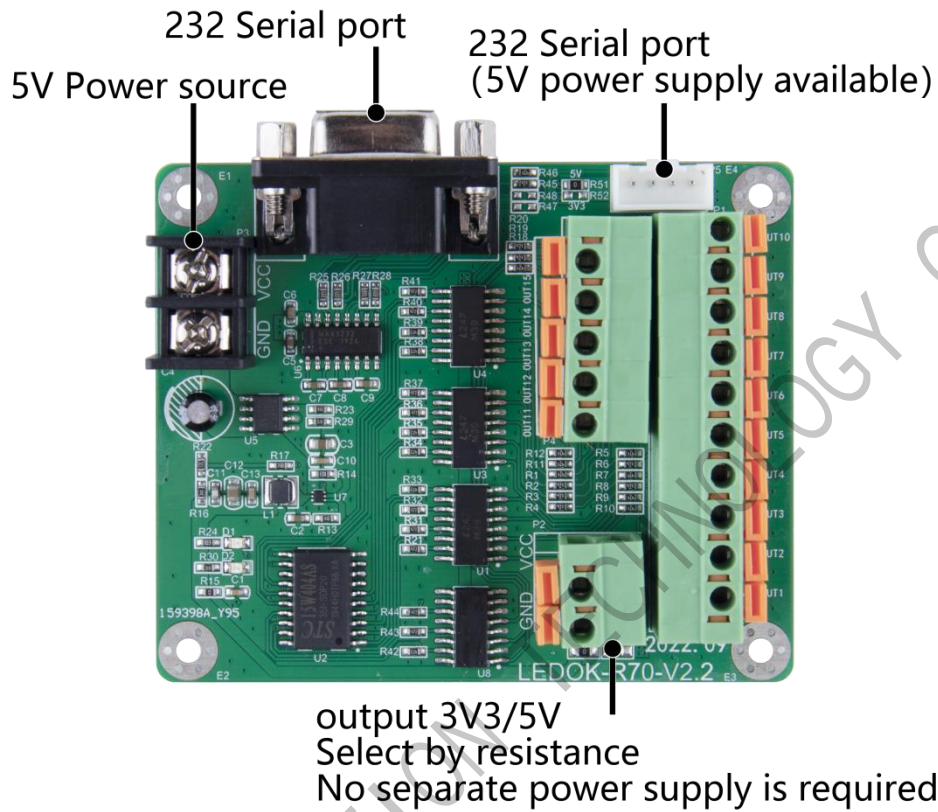
Update Record

No.	Version	Update	Revision
1	Ver.1.0	Initial Release	2019.9.01

Note: The contents of this document are subject to change without notice.

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Product Appearance



Note: The IO trigger voltage is 5V by default, or 3.3V can be selected by changing the resistance. Remarks are required in the order contract.

Functional Characteristics

R70 has the following characteristics:

1. IO pin 3.3V level switch stored on demand video.
2. Support automatic switching of up to 20 stored programs.
3. Support multiple occasions.
4. RS232 serial communication.
5. Use with K series control card.

Working Conditions

Transmission trigger conditions:

1. After the status of the IO port changes, a transmission is triggered immediately;
2. When the IO port status is in a steady state, a transmission is triggered every 1s.

Indicator Light Description:

Label	Name	Function
D2	Power indicator	On: The 3.3V voltage supply is normal Other: The 3.3V voltage supply is abnormal
D4(Run)	Running indicator	On: The system is running normally Off: The system is in the reset state Other: The system is operating abnormally

Interface specification:

Label	Name	Function
J1	Power terminals	+5V Power input
J9	DB9 Female	RS232 Serial port
J4	IO Power	P-VCC: Identify whether the IO instruction device is powered on P-GND: Common ground with IO instruction device
J2	IO Instruction input	01 to 10 in order
J3	IO Instruction input	11 to 20 in order

Key Description :

Label	Name	Function
S1	Reset	Press: Put the system into reset state Release: Make the system try to enter the running state

Necessary explanation:

1. Reset
Press S1 or P-VCC to disconnect from 3.3V, and the system will enter the reset state.

2. Serial port parameters

Baud rate	57600
Data bit	8
Stop bit	1
Check mode	No
Flow controlmode	No

3. IO Priority

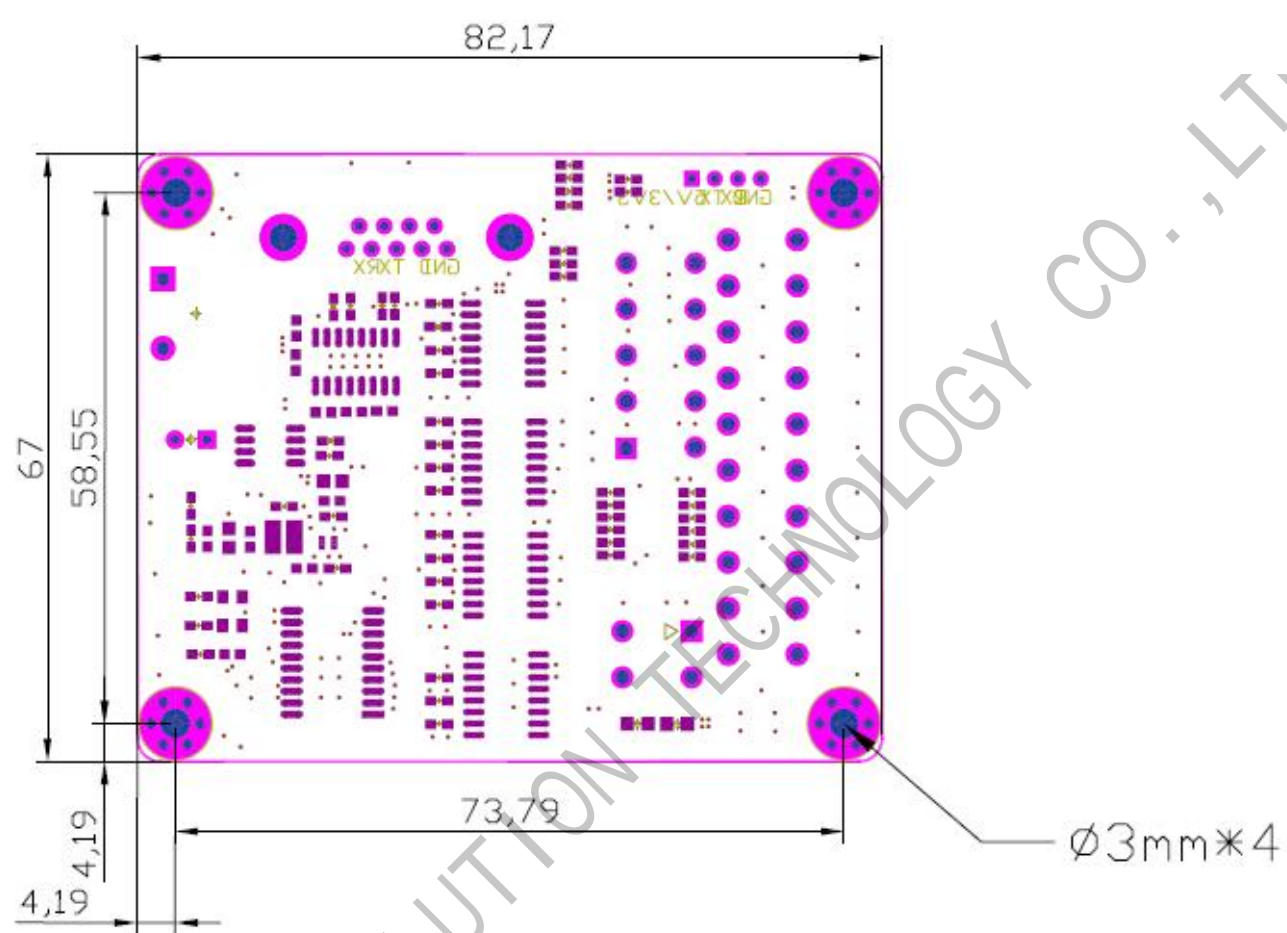
The IO priority decreases in sequence from 1 to 20, that is 1 is the highest and 20 is the lowest. When high priority IO is in high level, low priority IO changes will be ignored by the system to ensure that "only one IO is high at the same time".

4. Instruction Format

Synchronous head	Data Type	Keep	Text length	Text content	Check code
3Bytes	1Byte	4Bytes	4Bytes	4Bytes	1Byte
0x7E 0x7E 0x55	0x97	0x00 * 4	0x04	ID	xx

ID is the valid IO port number, 1 ~ 20. If all 20 IO are in low level, the ID is 0x00. Data transmission is in little endian mode, that is the low byte comes first.

Size



Connection Diagram



Notes

1. Do not plug or unplug cables while power is on.
2. Try to avoid touching the chip and its pins on the product to prevent static damage.

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