

Title:	Component Overview of the access controller board and access control board 门禁控制器主板和闸机权限控制板的部件概述	Version:		Date:	28/02/2022
Product:	DS-K2604, DS-KM200	Page:	1 of 32		

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Component Overview of the Access Controller Main Board and Access Control Board of Turnstile

门禁控制器主板和闸机权限控制板的部件概述

介绍：本文共分为两部分。第一部分介绍门禁控制主板，结构示意图为 DS-K2604 门禁控制主板，实物为 DS-K2602 门禁控制主板（注释：两主板功能结构相似，故可交叉代替讲解）。第二部分介绍闸机权限控制板，结构示意图和实物均为 DS-KM200 权限控制板。

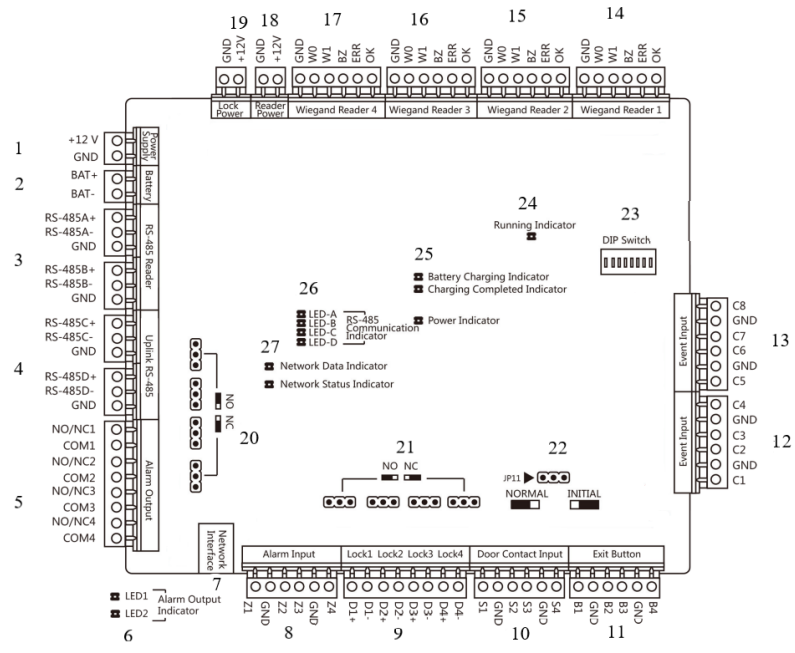
Introduction: This article is divided into two parts. The first part introduces the access control motherboard. The structure diagram is the DS-K2604 access control motherboard, and the physical object is the DS-K2602 access control motherboard (Note: The functions and structures of the two motherboards are similar, so they can be crossed instead to explain). The second part introduces the gate authority control board, the structure diagram and the physical object are DS-KM200 authority control board.

第一部分

The First Part

DS-K2604 Access Controller Main Board 门禁控制器主板

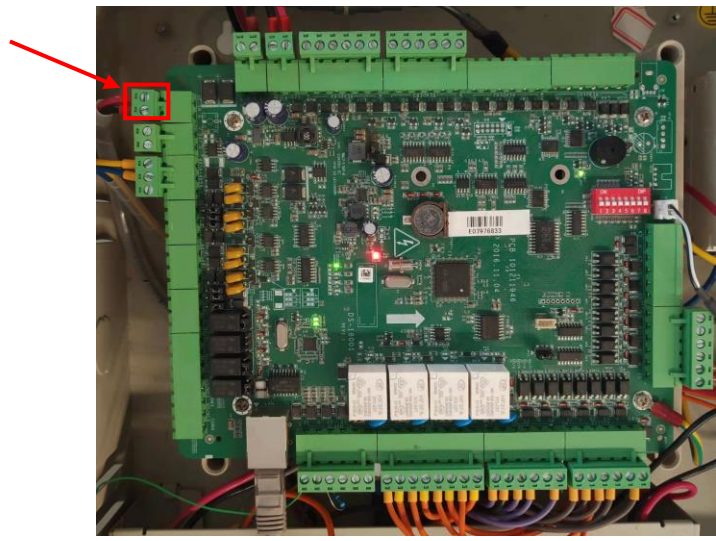
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1. 12V Power (VDC) 12V 直流电源

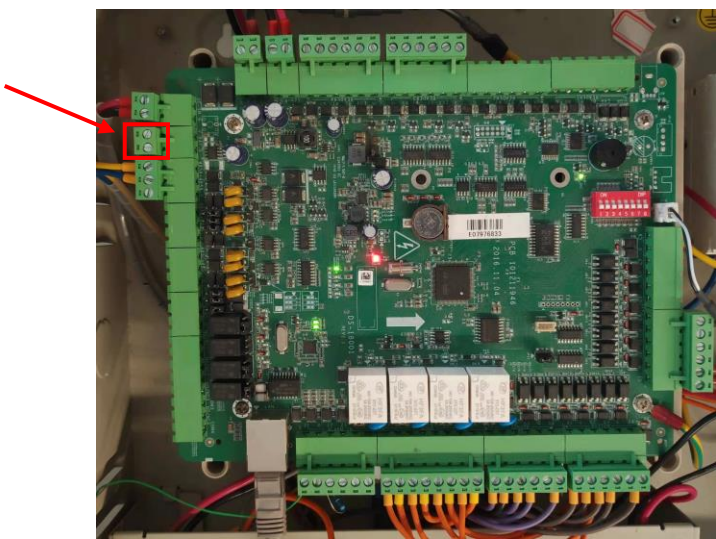


Picture 1

Application: provide 12V (VDC) power for external device.

作用：为外设提供 12V 直流电源。

2. Battery (VDC Battery) 蓄电池



Picture 2

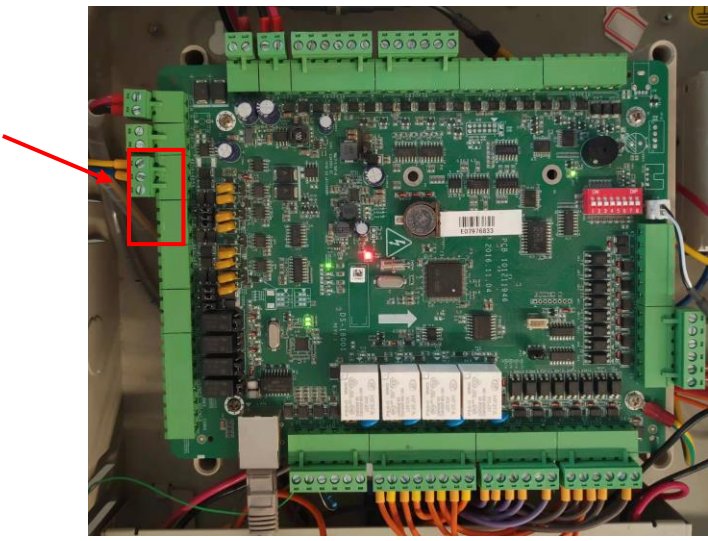
Application: provide 12V (VDC) power for external battery.

作用：为备用电池提供 12V (VDC) 电源。

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3. RS485 card reader interface 读头 485 接入

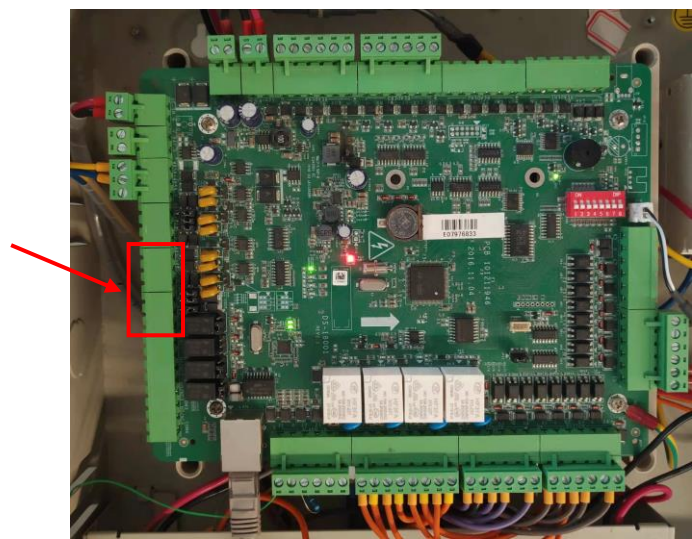


Picture 3

Application: connect to RS485 card reader.

作用：连接到 RS485 读卡器。

4. Access Controller RS485 interface 主机 485 接口



Picture 4

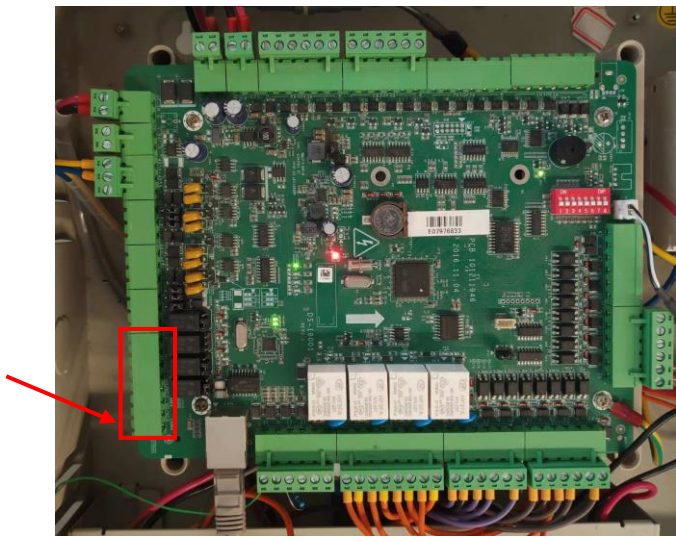
Application: connect to devices which can support the 485 protocol.

作用：连接到支持 485 协议的设备。

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5. Alarm Output interface 报警输出接口

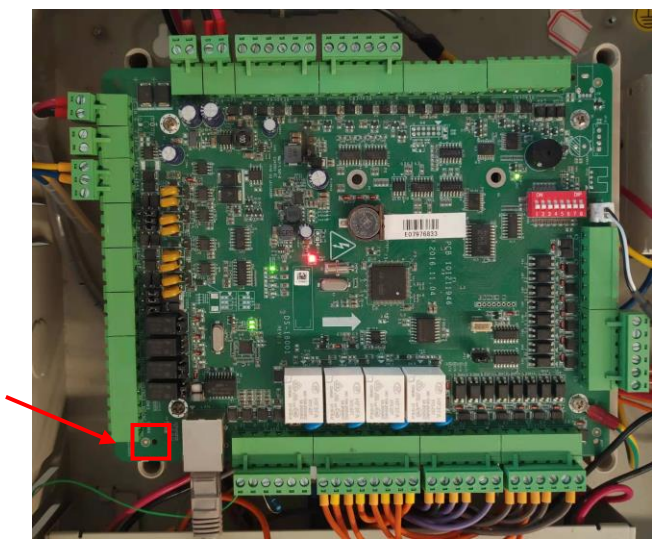


Picture 5

Application: connect to alarm output devices.

作用：连接到报警输出设备。

6. Alarm Output indicator 报警输出指示灯



Picture 6

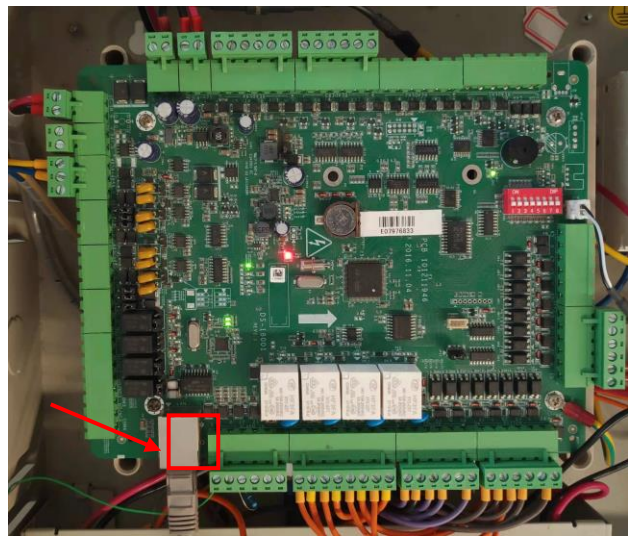
Application: alarm output indicator light.

作用：报警输出指示灯。

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7. Network interface 网络接口

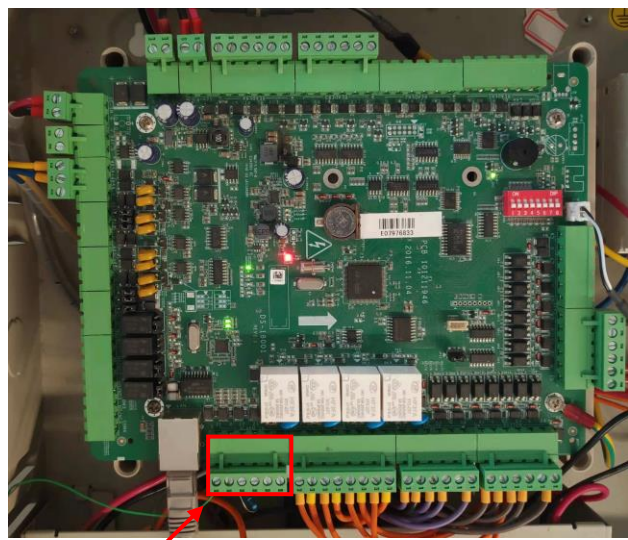


Picture 7

Application: connect the network cable.

作用：连接网线。

8. Alarm input interface 防区输入接口



Picture 8

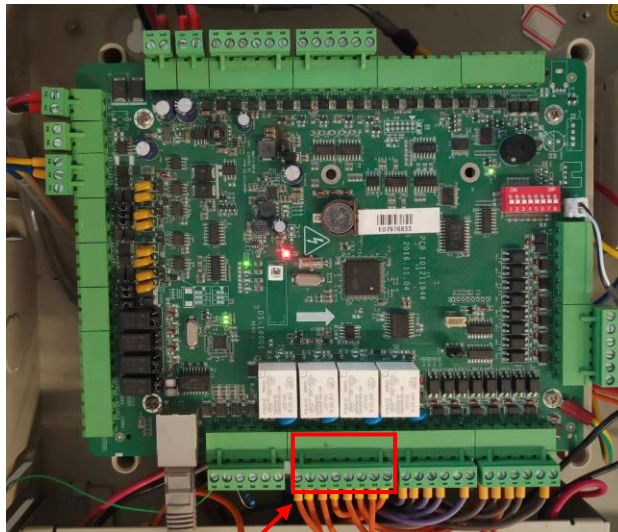
Application: connect the alarm input devices.

作用：连接报警输入设备。

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9. Lock interface 电锁接口

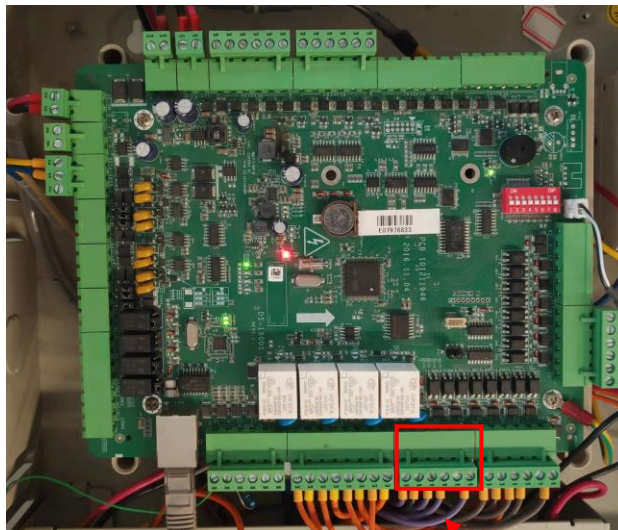


Picture 9

Application: connect lock.

作用：连接电锁。

10. Door Contact Input Interface 门磁输入接口



Picture 10

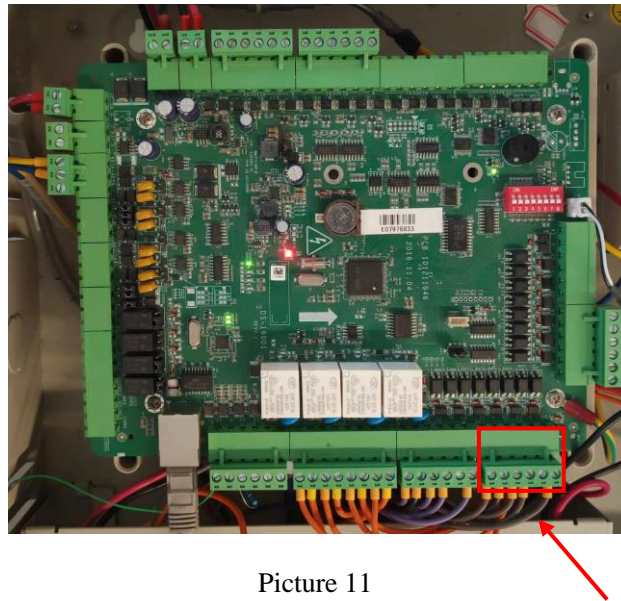
Application: connect door contact input device.

作用：连接门磁输入设备。

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11. Exit button interface 开门按钮

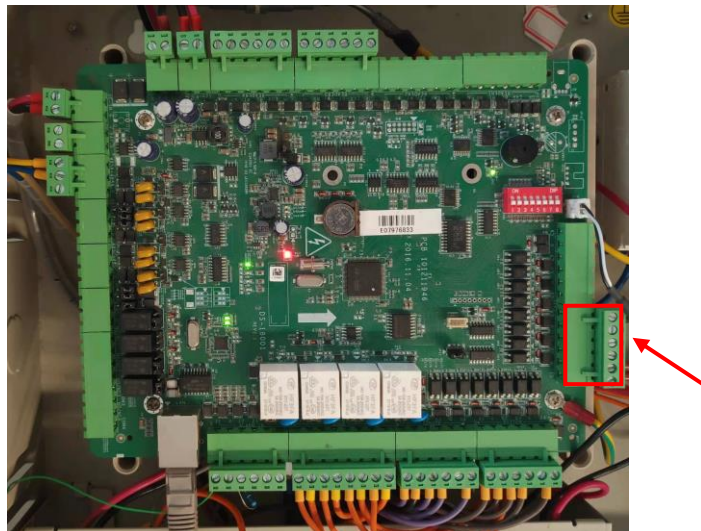


Picture 11

Application: connect exit button.

作用：连接开门按钮。

12. Event input interface 事件输入接口



Picture 12

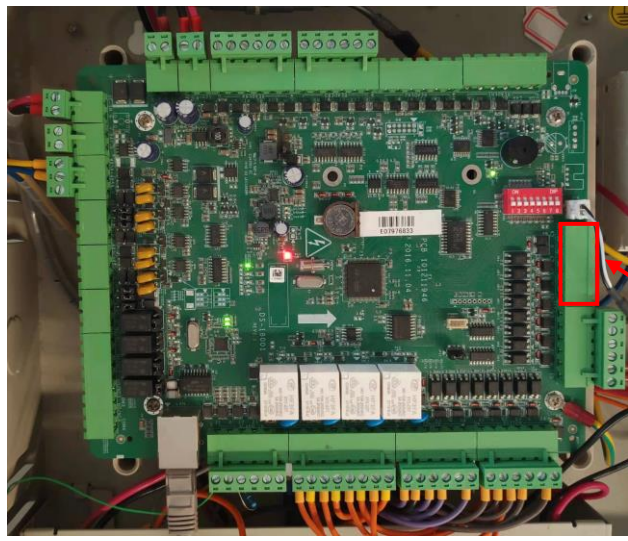
Application: connect event input devices.

作用：连接事件输入设备。

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13. Event output interface (2) 事件输出接口

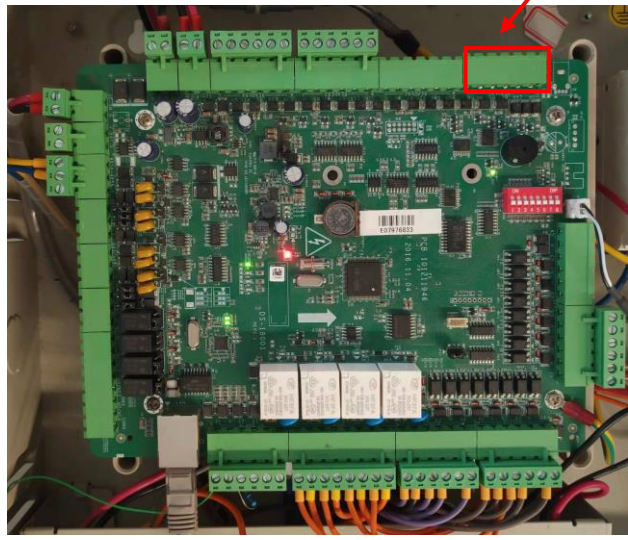


Picture 13

Application: connect event input devices.

作用：连接事件输出设备。

14. Wiegand reader 1 韦根读头 1



Picture 14

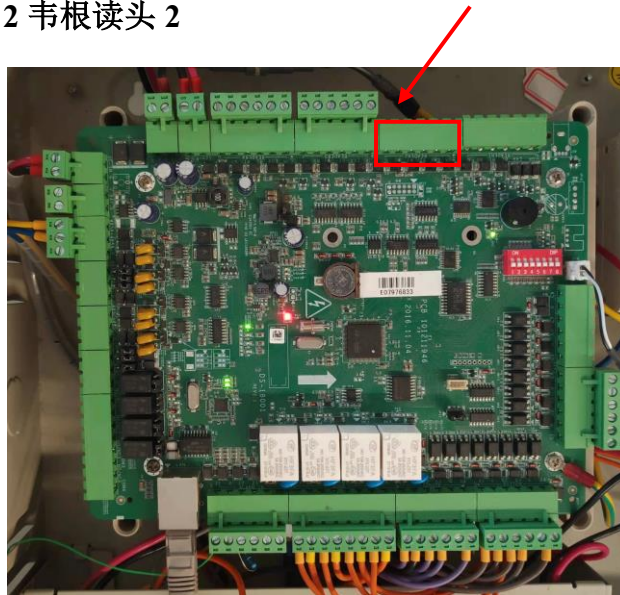
Application: connect Wiegand reader.

作用：连接韦根读卡器。

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15. Wiegand reader 2 韦根读头 2



Picture 15

Application: connect Wiegand reader.

作用：连接韦根读卡器。

16. Wiegand reader 3 韦根读头 3



Picture 16

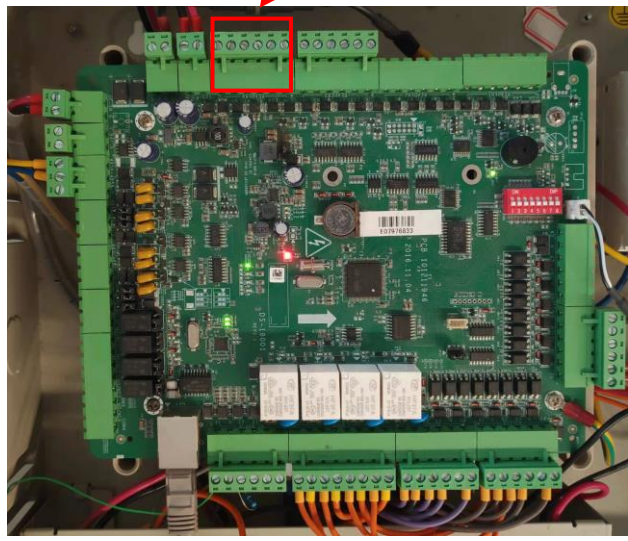
Application: connect Wiegand reader.

作用：连接韦根读卡器。

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17. Wiegand reader 4 韦根读头 4

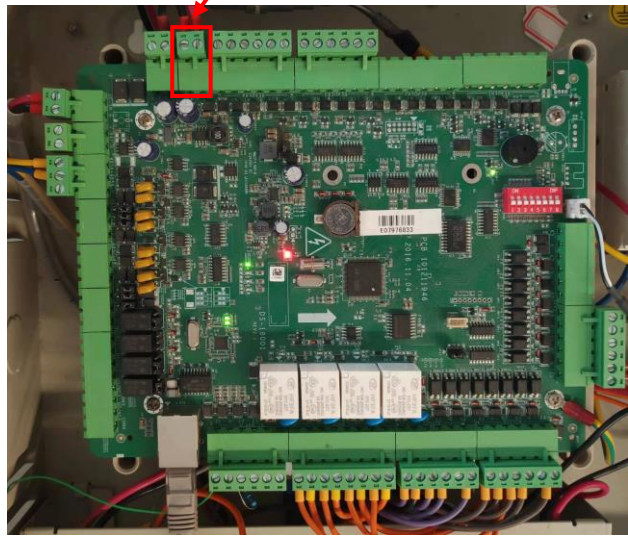


Picture 17

Application: connect Wiegand reader.

作用：连接韦根读卡器。

18. Reader Power 读头电源



Picture 18

Application: powering the card reader.

作用：为读卡器供电。

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19. Lock Power 门锁电源

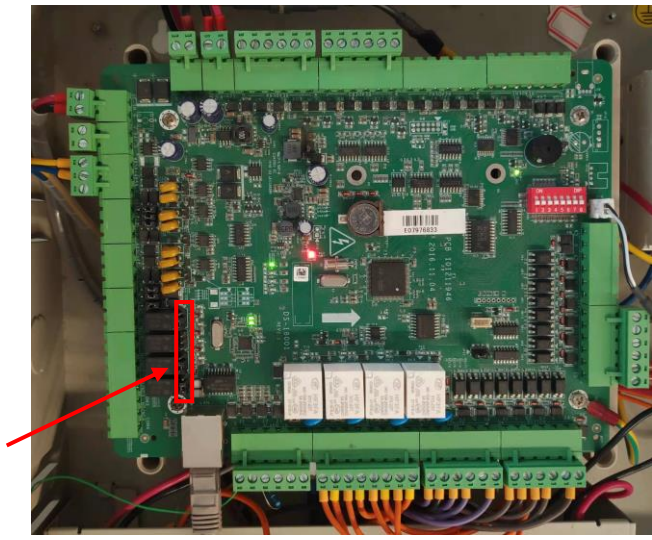


Picture 19

Application: powering the lock.

作用：为门锁供电。

20. Alarm Relay Output Status (NC/NO) 报警继电器输出状态 (NC/NO)



Picture 20

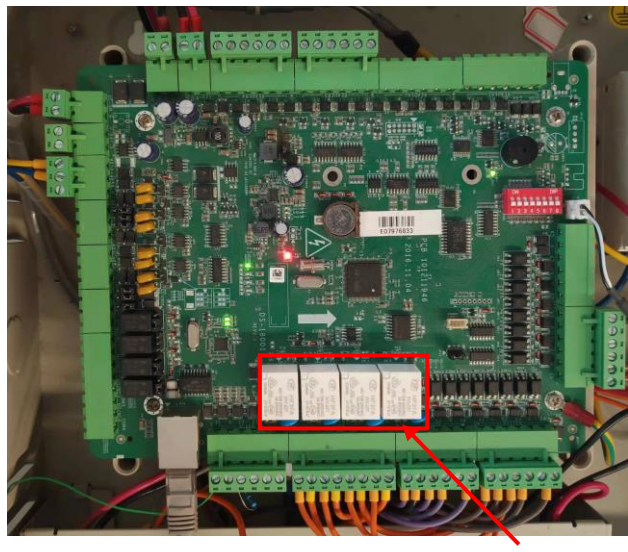
Application: show alarm relay output status.

作用：展示报警继电器输出状态。

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21. Door Relay Output Status (NC/NO) 门锁继电器输出状态 (NC/NO) 选择

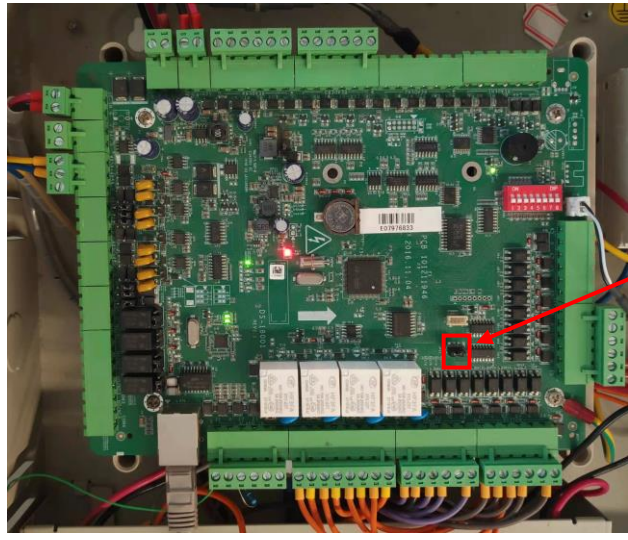


Picture 21

Application: Choice door relay output status.

作用：选择门锁继电器输出状态。

22. Hardware initialization and Normal Working 硬件初始化或一般工作选择



Picture 22

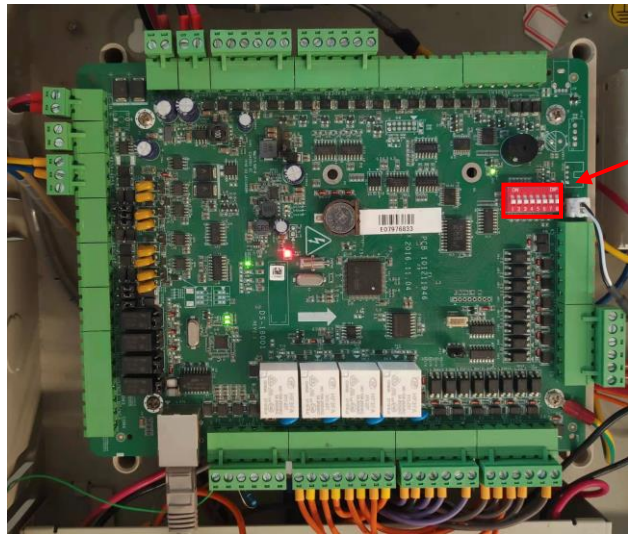
Application: Choice Hardware initialization and Normal Working.

作用：选择硬件初始化和正常工作。

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23. Main Board DIP Switch 主板拨码设定开关

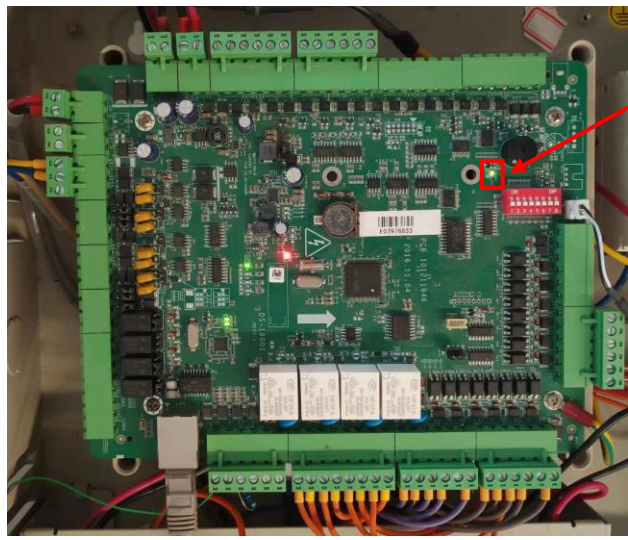


Picture 23

Application: Set the DIP address for the access controller. Available range: 1 to 63.
(The settings will be valid after the device reboot.)

作用：可设定主机通过 RS-485 协议通讯时的地址。可设定的主机地址范围：
1 ~ 63。（变更拨码值后需断电重启才能生效）

24. Running Indicator 运行指示灯



Picture 24

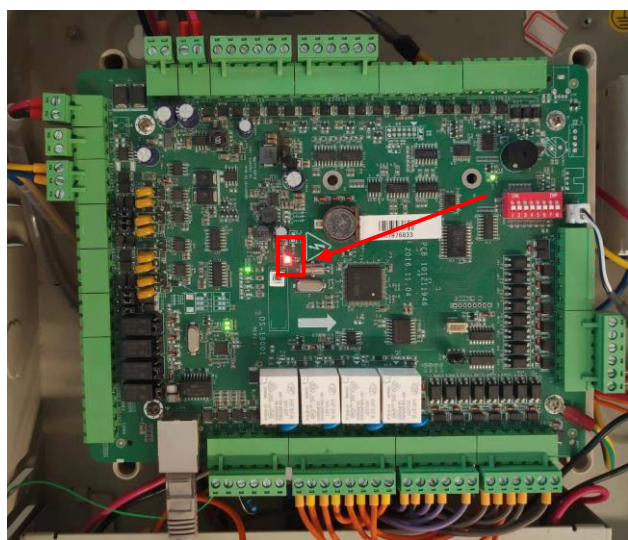
Application: show running status of controller.

作用：显示控制器的运行状态。

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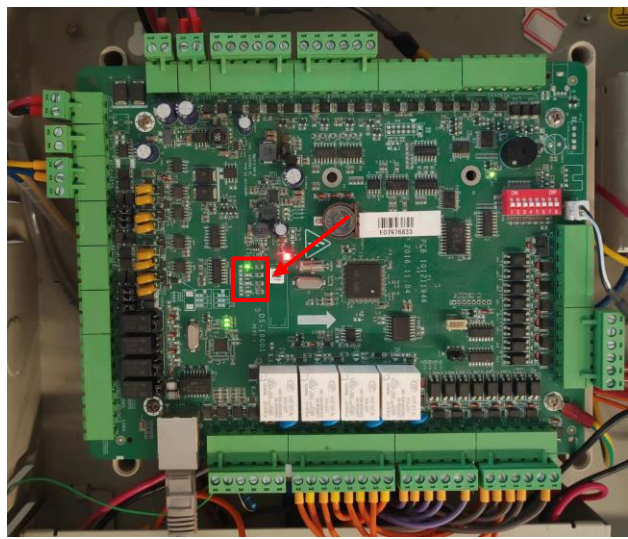
25. Battery Charging, Power, and Charging completing indicator 充电指示灯，电源指示灯和充电结束指示灯



Picture 25

Application: show Battery Charging, Power, Charging completing status.
作用：显示充电，电源接通，充电结束状态。

26. RS-485 communication Indicator 485 通讯指示灯



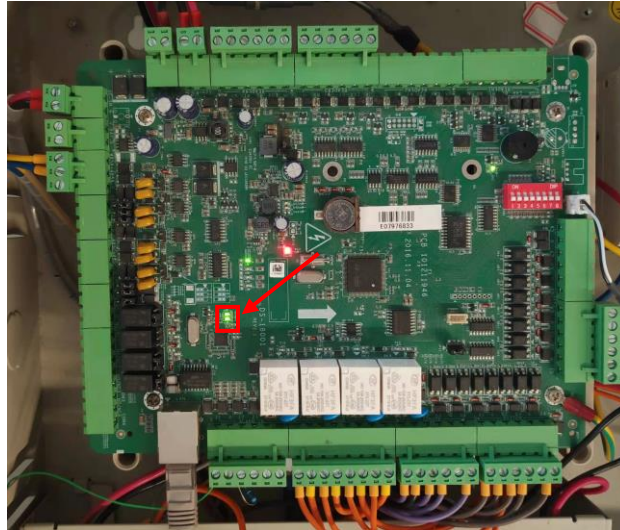
Picture 26

Application: show RS-485 communication status.
作用：显示 485 通讯状态。

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27. Network Data and status indicator 网络数据和状态指示灯



Picture 27

Application: show network data and status indicator.

作用：展示网络数据和状态。

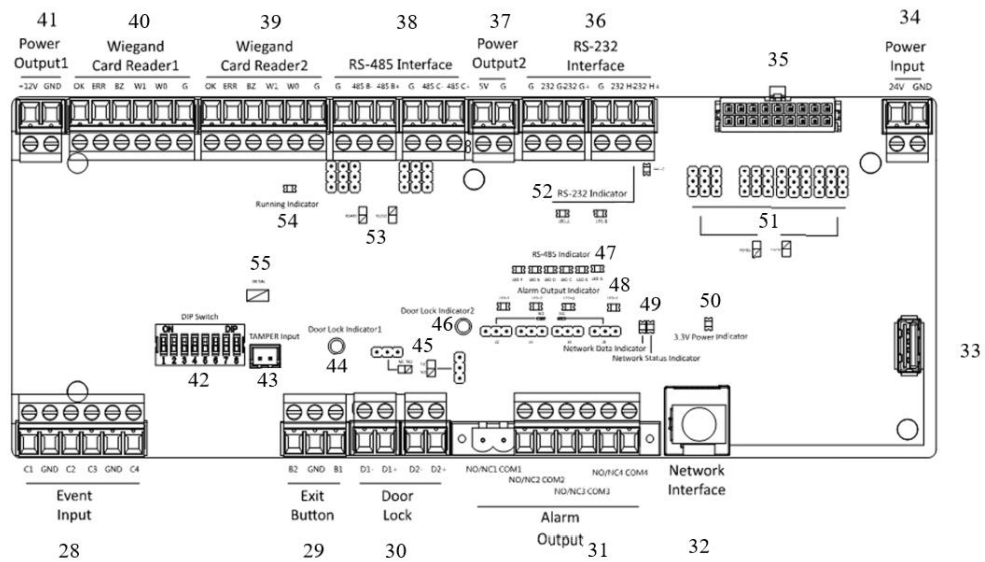
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第二部分

The Second Part

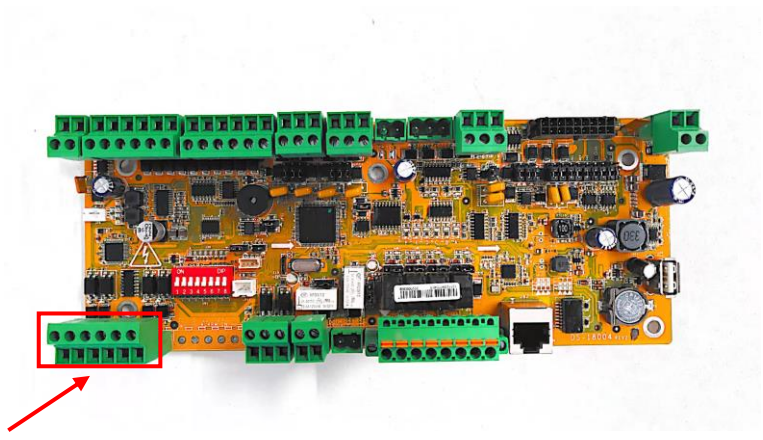
DS-KM200 Access Control Board (闸机) 权限控制板



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28. Event input interface 事件输入接口

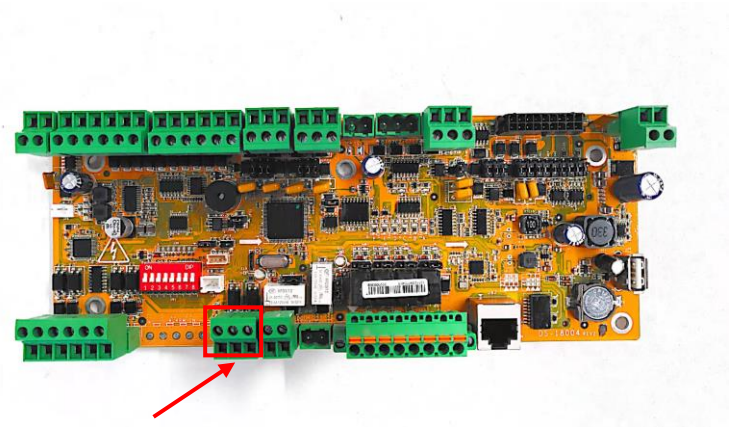


Picture 28

Application: connect event input device. The alarm input hardware interface is normally open by default. So only the normally open signal is allowed. It can be linked to the buzzer of the card reader and access controller, and the alarm relay output and open door relay output.

作用：连接事件输入设备。事件报警输入硬件接口为常开型，只支持接入常开信号，可联动主机蜂鸣器输出、读卡器、蜂鸣器输出、报警继电器输出、开门继电器输出。

29. Exit Button 开门按钮



Picture 29

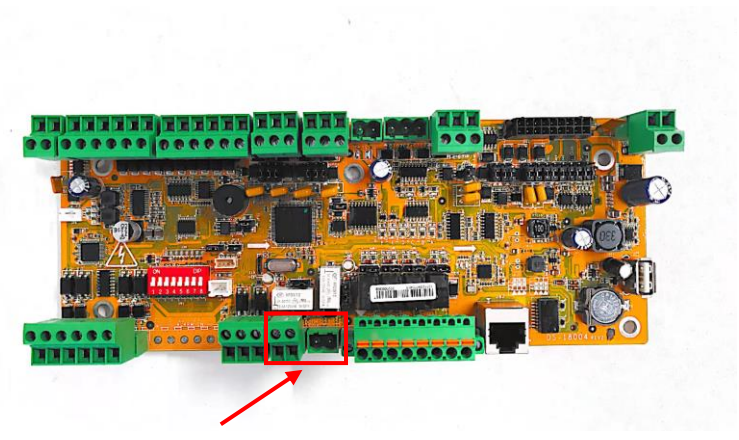
Application: connect exit button.

作用：连接开门按钮。

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30. Door Lock 门锁

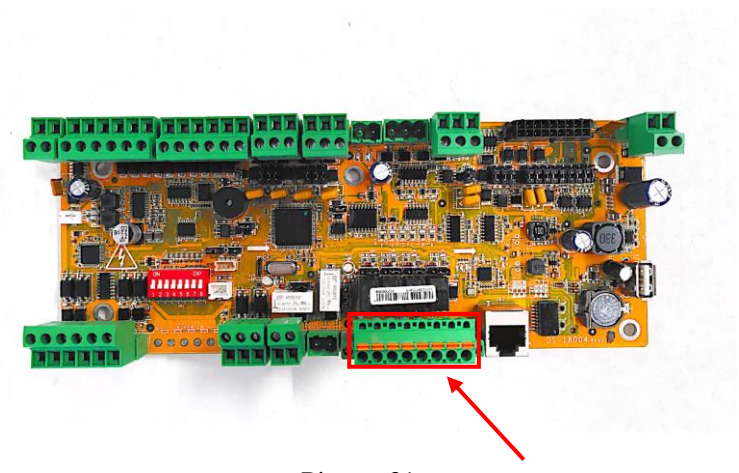


Picture 30

Application: connect door lock.

作用：连接门锁。

31. Alarm Output 报警输出



Picture 31

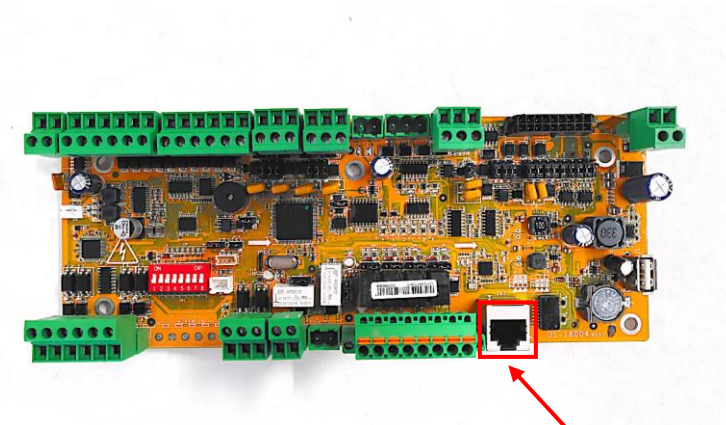
Application: connect alarm output devices.

作用：连接报警输出设备。支持开关量输出。

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32. Network interface 网口

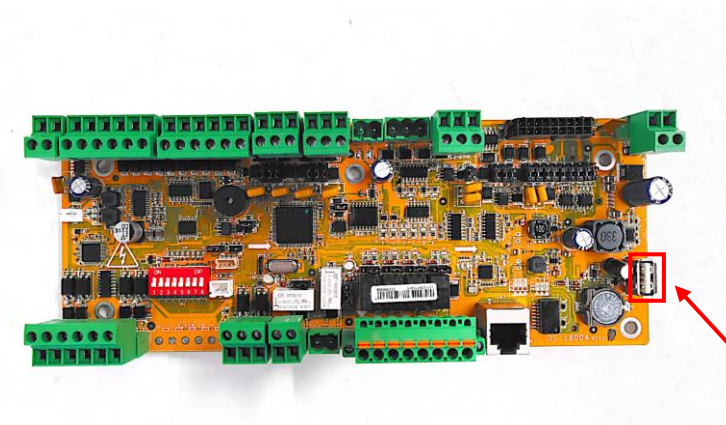


Picture 32

Application: connect network cable.

作用：连接网线。

33. USB interface USB 接口



Picture 33

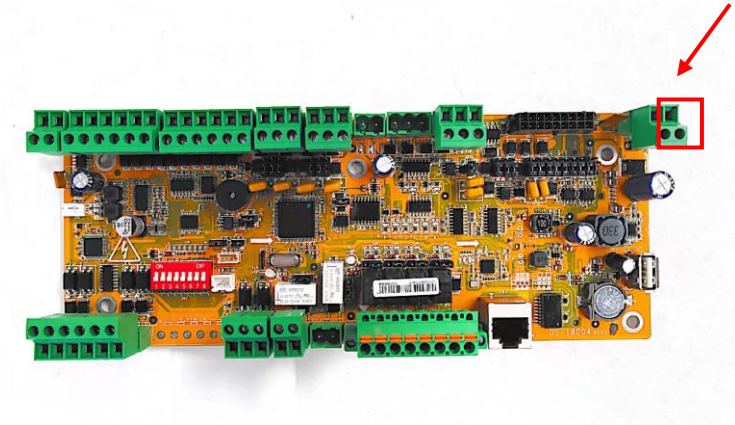
Application: connect USB interface devices.

作用：通过 USB 连接设备。

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34. Power Input interface 电源输入接口

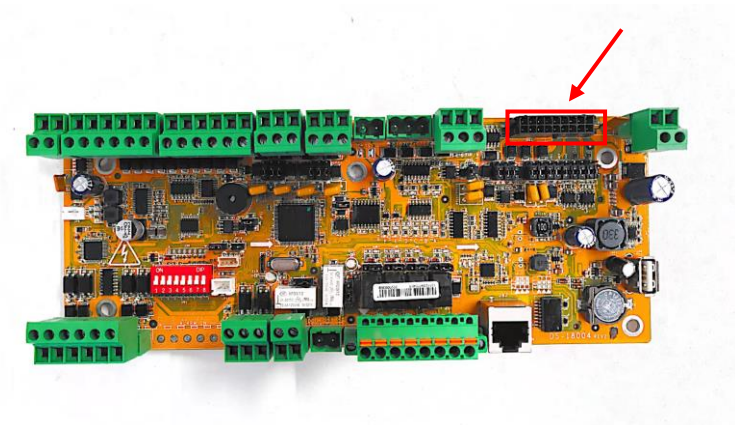


Picture 34

Application: powering access control board.

作用：为权限控制器供电。

35. Wiring interface 排线接口



Picture 35

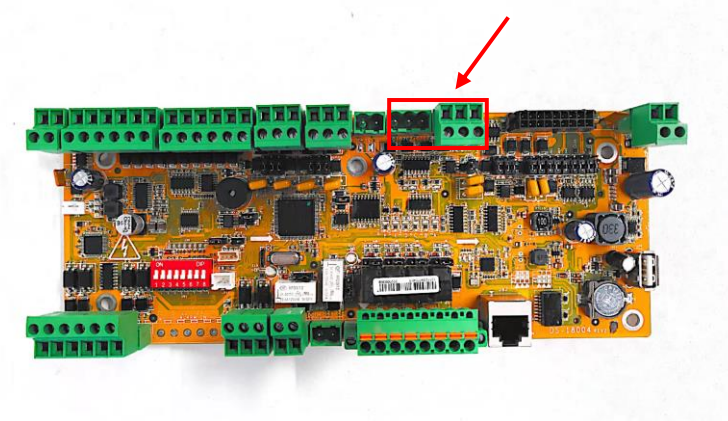
Application: Wiring Interface is corresponded to UART1, UART4, UART6, UART6, and Lane.

作用：排线接口中包括串口 1，串口 4，串口 5，串口 6，和通道串口。

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36. RS232 interface RS232 接口

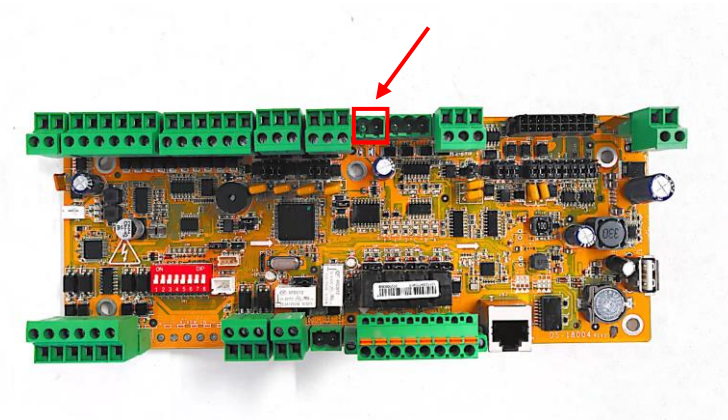


Picture 36

Application: connect device which can support RS232 Protocol (UART2/UART3).

作用：RS-232 接口对应串口 7 和串口 8。

37. Power Output interface 2 电源输出接口 2



Picture 37

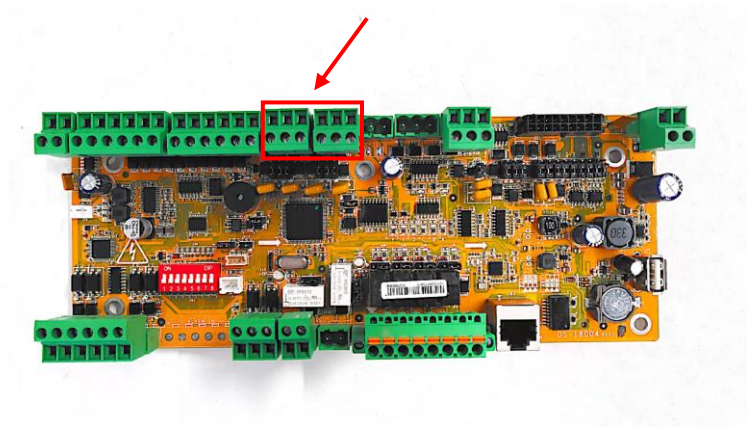
Application: powering external devices.

作用:为外接设备供电。

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38. RS485 interface RS485 接口

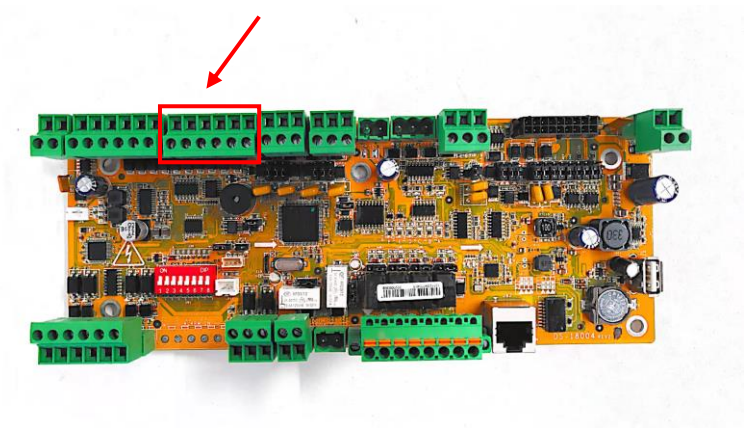


Picture 38

Application: connect device which can support RS485 Protocol, correspond to UART2/UART3 Jumper Cap.

作用：连接支持 RS485 协议的设备，RS-485 接口对应串口 2 和串口 3。

39. Wiegand Card Reader interface 1 韦根读卡器 1



Picture 39

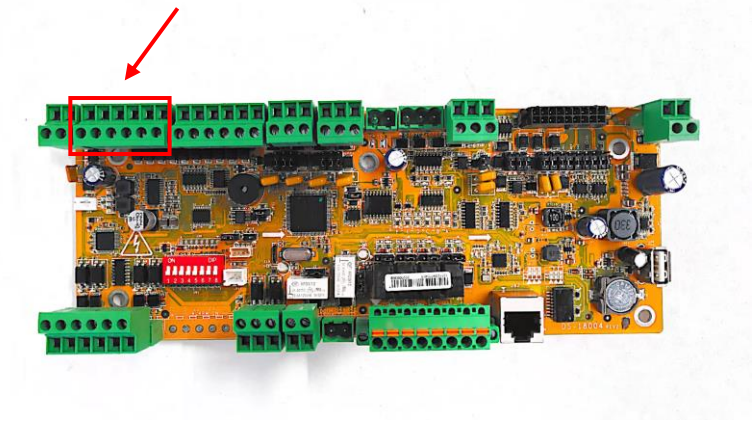
Application: connect the Wiegand card reader.

作用：连接韦根读卡器。

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40. Wiegand Card Reader interface 2 韦根读卡器 2

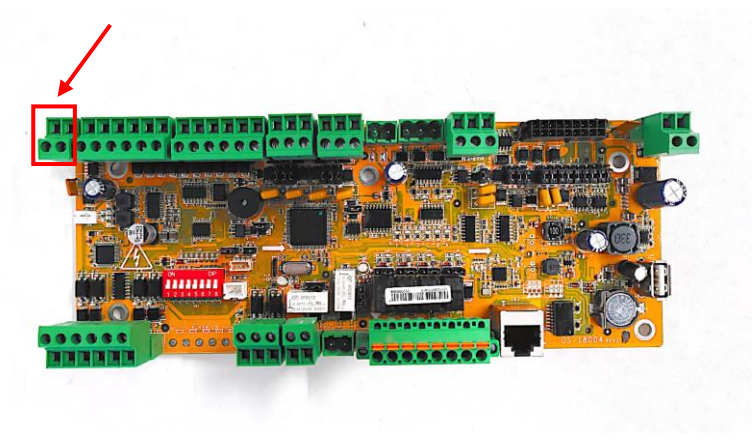


Picture 40

Application: connect the Weigand card reader.

作用：连接韦根读卡器。

41. Power Output interface 1 电源输出接口 1



Picture 41

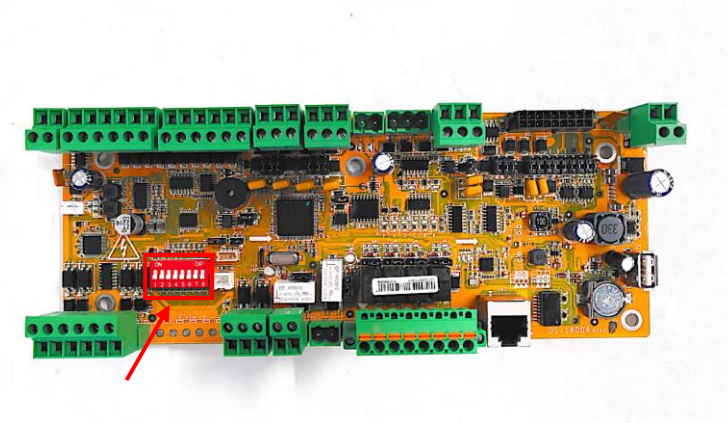
Application: powering external devices.

作用：为外接设备供电。

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42. DIP switch 拨码开关

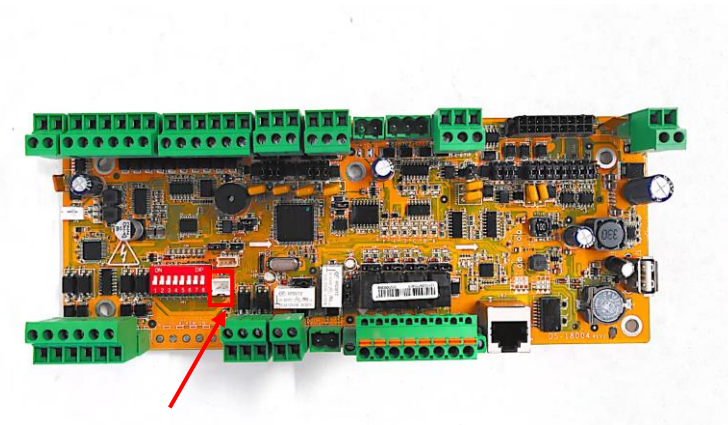


Picture 42

Application: set the DIP address for the access controller.

作用：设置访问控制器的 DIP 地址。

43. Tamper input 防拆输入



Picture 43

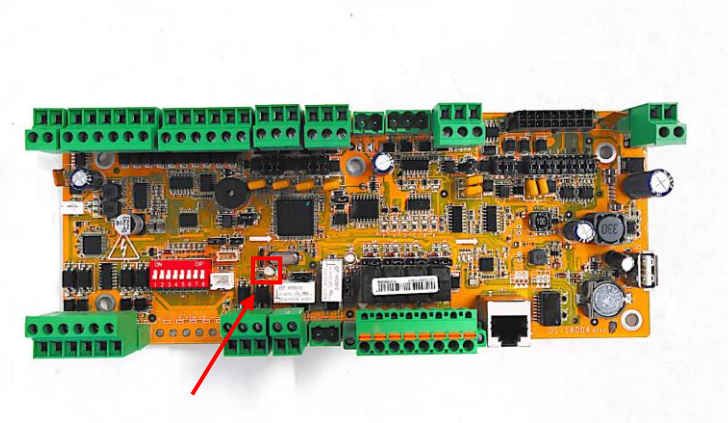
Application: connect external devices.

作用：连接防拆设备。

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44. Door Lock indicator 1 门锁继电器输出（干接点）1

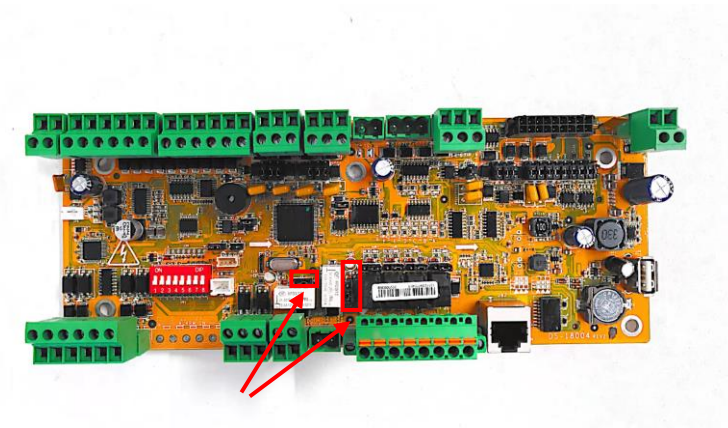


Picture 44

Application: show the status of door lock.

作用：显示门锁状态。

45. jumper cap for adjusting barrier entry and exit. 用于调节继电器的跳盖。



Picture 45

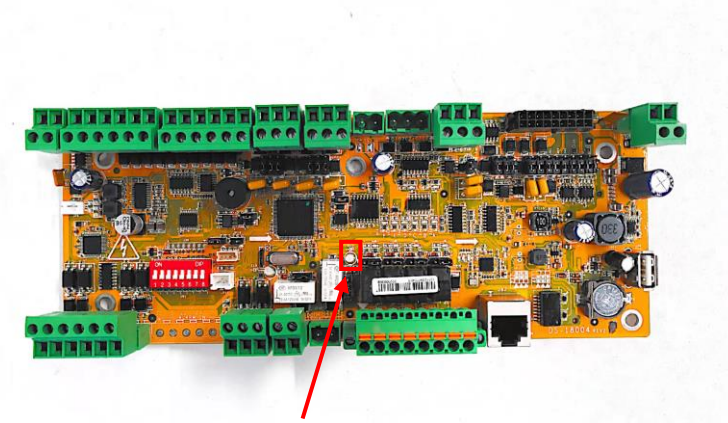
Application: switch barrier control relay output mode.

作用：调节继电器的输出输入模式 (NO/NC)。

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46. Door Lock indicator 2 门锁继电器输出（干接点）2

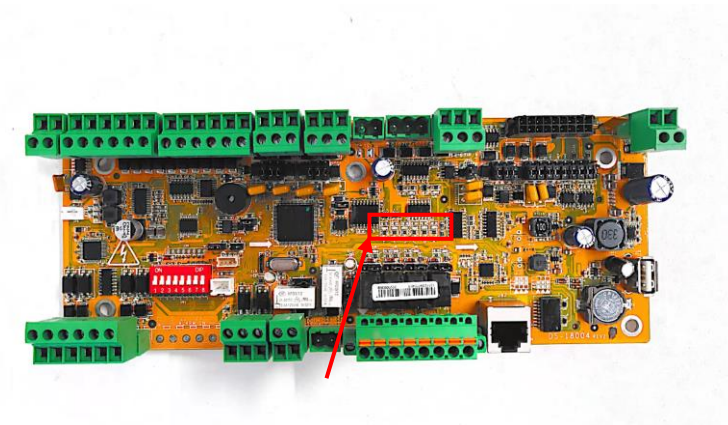


Picture 46

Application: show status of the door lock

作用：显示门锁状态。

47. RS485 Indicator RS485 指示灯



Picture 47

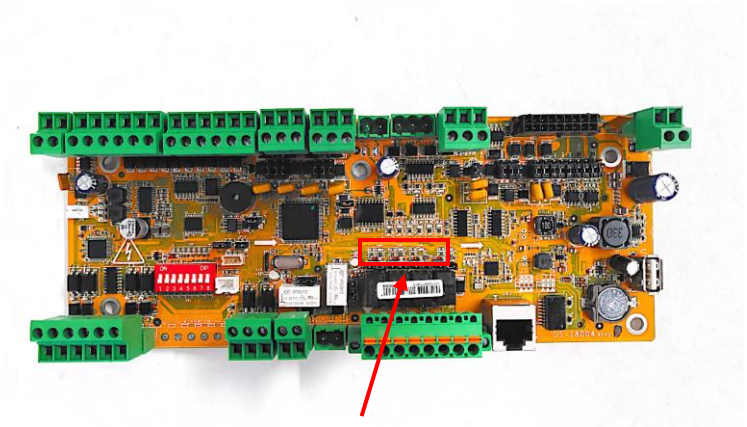
Application: show status of RS485 communication.

作用：显示 RS485 的连接状态

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48. Alarm output Indicator 报警输出指示灯

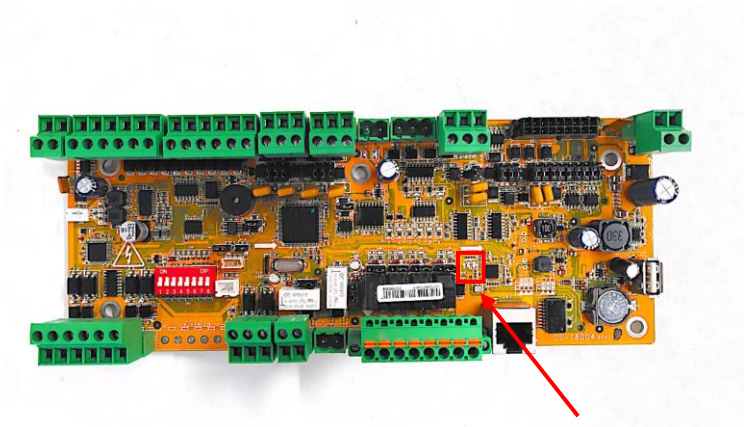


Picture 48

Application: show status of alarm output.

作用：显示报警输出状态。

49. Network data and status indicator 网络数据和网络状态指示灯



Picture 49

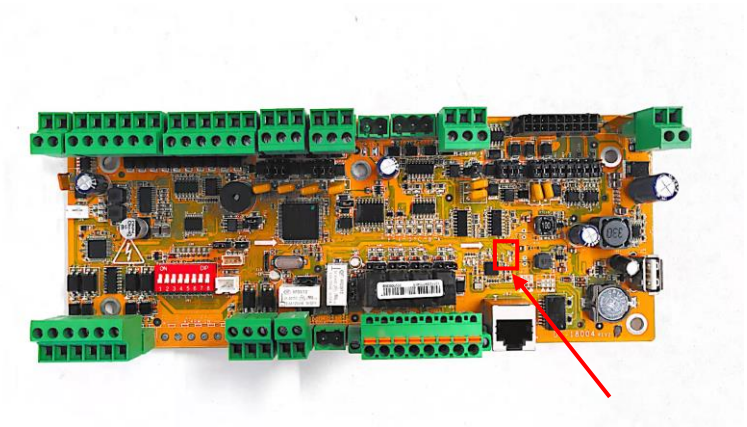
Application: show network status and status of the network data.

作用：显示网络数据和网络状态。

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50. 3.3V Power indicator 3.3V 电源指示灯

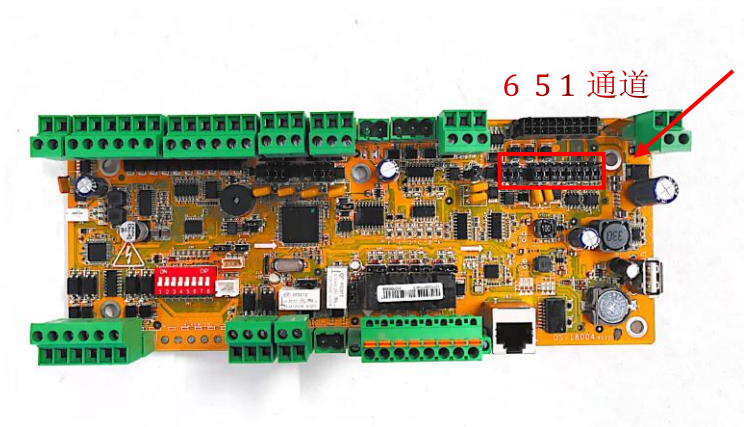


Picture 50

Application: show status of 3.3V powering

作用：显示 3.3V 电源的状态。

51. jumper cap of the serial port 1 串口跳帽1



Picture 51

Application:

UART6 Jumper Cap

Use the jumper cap to switch the serial port communication mode with the sub lane controller. You can switch between the RS-232 communication mode and the RS-485 communication mode. By default, it is in RS-232 communication mode.

UART5 Jumper Cap

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Use the jumper cap to switch the serial port communication mode with the sub lane controller. You can switch between the RS-485 communication mode and the RS-232 communication mode. By default, it is in RS-485 communication mode.

UART1 Jumper Cap

Use the jumper cap to switch the serial port communication mode with the main lane controller. You can switch between the RS-485 communication mode and the RS-232 communication mode. By default, it is in RS-485 communication mode.

Lane

Use the jumper cap to switch the serial port communication mode with the lane controller. By default, the interface is wired and it is in RS-485 communication mode. If wiring other controllers (communication with Hikvision communication protocol), use the jumper cap to switch between RS-485 and RS-232 communication mode.

作用:

串口 6 跳帽:

通过跳帽可切换与从通道控制器的串口通讯模式。可在 RS-232 通信模式和 RS-485 通讯模式间切换。默认为 RS-232 通信模式。

串口 5 跳帽:

通过跳帽可切换与从通道控制器的串口通讯模式。可在 RS-485 通信模式和 RS-232 通讯模式间切换，默认为 RS-485 通信模式。

串口 1 跳帽:

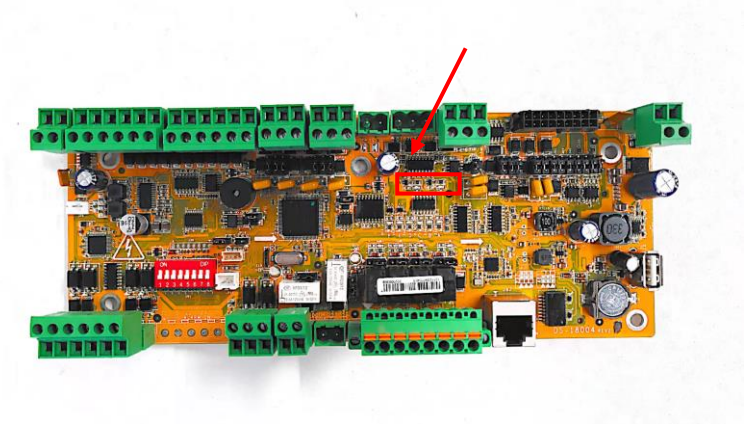
通过跳帽可切换与主通道控制器的串口通讯模式。可在 RS-485 通信模式和 RS-232 通讯模式间切换，默认为 RS-485 通信模式。

通道跳帽:

可通过跳帽切换与通道控制器的通信模式切换，出厂时串口已连接，默认为 RS-485 通信模式。若需接入其他控制器（兼容海康通信协议），则可通过跳帽切换串口模式。可在 RS-485 和 RS-232 通讯模式间切换。

52. RS232 indicator RS232指示灯

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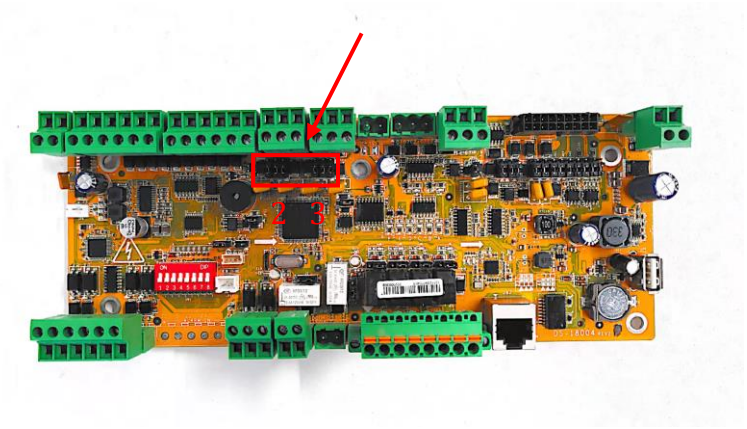


Picture 52

Application: show status of RS232 communication.

作用：显示 RS232 的连接状态。

53. jumper cap of the serial port 2 串口跳帽2



Picture 53

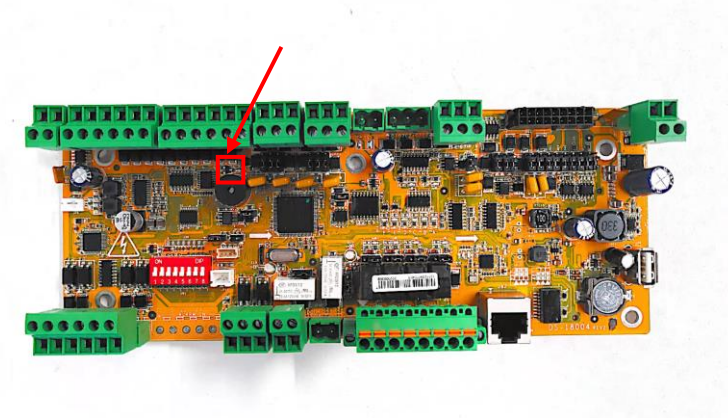
Application: Reserved serial port. Use the jumper cap to switch the serial port communication mode. You can switch between the RS-485 communication mode and the RS-232 communication mode. By default, it is in RS-485 communication mode.

作用：预留串口。通过跳帽可切换串口通讯模式。可在 RS-485 通信模式和 RS-232 通讯模式间切换。默认为 RS-485 通讯模式。

54. Running indicator 运行指示灯

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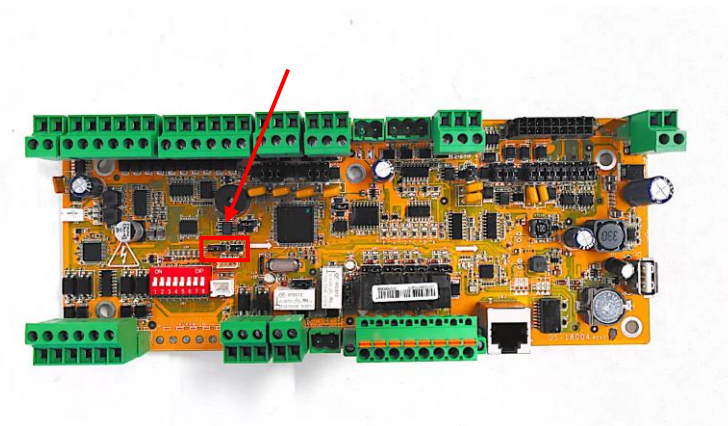


Picture 54

Application: show status of the running device.

作用：显示设备运行状态。

55. jumper cap for initialization 用于初始化的跳帽



Picture 55

Application: initialization for devices.

作用：初始化设备。

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