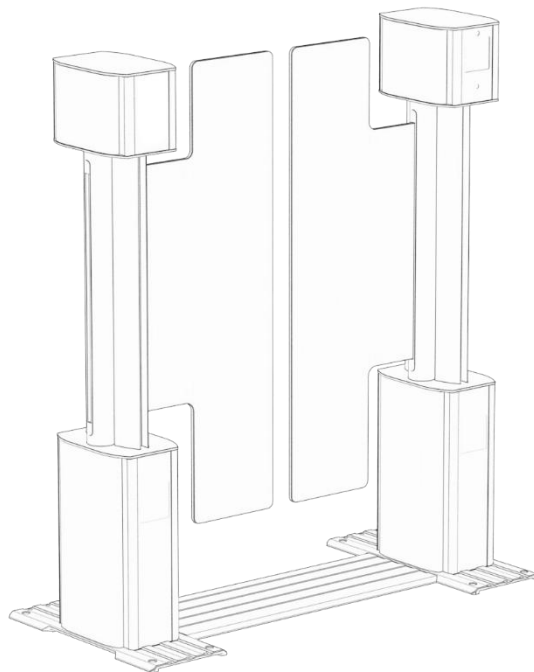


E25XX Series Compact Speed Gate

THIRD-PARTY INTEGRATION SOLUTIONS

Rev 07



Revisions

Revision	Date	Author	Checked	Nature
01	2025-10-22			Initial version
02	2025-11-13			PM2525MC with New Interface Layout
03	2025-11-28			Updated some images
04	2025-12-31			Corrected minor errors in the wording
05	2026-1-9			Revised interface description details
06	2026-1-28			Removed Integration Solution 7
07	2026-8-24			Layout adjustment for chart contents

1. Framework for Third-party Access to The Speed Gate	5
2. Main Interfaces Description	8
2.1. PM2525S.....	8
2.2. PM2525MC.....	9
3. Seven Integration Solutions	10
4. Solution 1: Exquisite Speed Gate Platform and Third Party Platform Integration	13
4.1. Interface Connections	13
4.2. Open API of Speed Gate Platform.....	14
4.3. Open API of Third-party Platform	14
5. Solution 2: Third-party Platform Integration with Speed Gate Open API	15
5.1. Interface Connections	16
5.2. Solution Description	16
6. Solution 3: Speed gate integration with Third-Party Platform Callback API	17
6.1. Interface Connections	17
6.2. Solution Description.....	18
7. Solution 4: Exquisite identification module + Third-party Access Controller Integration	19
7.1. Interface Connections	19
7.2. Solution Description.....	20
8. Solution 5: The Third-party All-in-One Access Control Unit Integration	21
8.1. Interface Connections	22



8.2. Solution Description	23
9. Solution 6: The All-in-One Access Control Unit Integration	24
9.1. Interface Connections	24
9.2. Solution Description	26
10. Solution 7: [card reader - access controller] and [face recognition all-in-one unit] integration	27
10.1. Interface Connections	28
10.2. Solution Description	30

1. Framework for Third-party Access to The Speed Gate

The Exquisite speed gate system offers not only a comprehensive suite of products for cloud platforms and access control but also software and hardware solutions designed to enable the seamless integration of third-party devices and platforms.

The speed gate features comprehensive built-in access control management capabilities. Including:

- 1) **Access control layer:** The access control layer supports a variety of identity recognition methods (NFC, QR code, mobile phone Bluetooth), which can supporting access permission management and access log queries;
- 2) **Speed gate control layer:** The speed gate control layer includes passage detection component, passage display component, motor control component, electronic lock component, and power management component, which can complete the execution of access control instructions and status display;
- 3) **Network platform:** In addition to supporting Amazon cloud platforms, the platform can also be deployed on local computer with a single click;
- 4) **Software toolchain:** Including installation and maintenance App (device initialization, debugging and maintenance), operation management client and App (device configuration and management, remote control, whitelist personnel and permission management, pass records query, visitor management, etc.) and Sesame Open App (mobile phone Bluetooth/QR code gate, remote control, invitation to visitors, etc.).

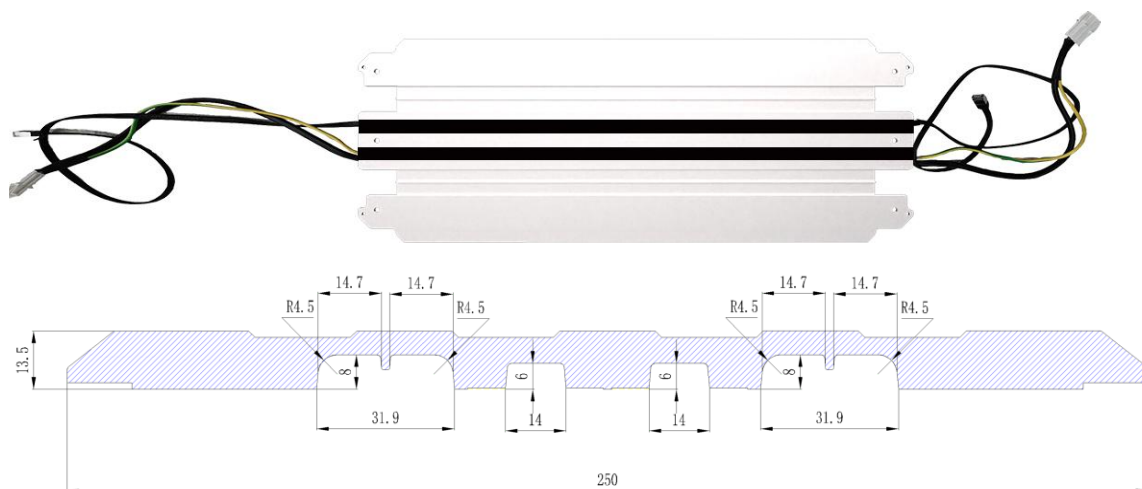
In order to support the integration of third-party card readers and access controller devices, the speed gate provides complete support, including:

- 1) **Relay interfaces:** The speed gate interface expansion board module PM2525S and controller PM2525MC provides 6 relay interfaces for third-party devices (access controller and all-in-one access control unit), which can complete the transmission and execution of entry and exit door opening instructions;
- 2) **RJ45 network interfaces:** The speed gate controller has a 100Mb/s network switch function, and provides multiple RJ45 network ports for connecting third-party devices such as access controller, all-in-one access control unit.
- 3) **Fire alarm signal Dry/Wet interfaces:** Used to connect fire alarm signal lines. Upon triggering an alarm, the gates open automatically to facilitate personnel evacuation;
- 4) **Wiegand interfaces:** Used to send data to a third-party access controller when using the display and identification module PM2525FI as a card reader;
- 5) **Power supply:** All the green ports on the gate controller PM2525MC, as shown in the following figure, can provide **12V/1A** power supply for third-party devices;
- 6) **Upper vertical card reader mounting panel and Column:** The vertical aluminum blank panel allows for custom machining to accommodate third-party equipment installation. If the optional passage partition kit (WXX, PCXX, and PGXX) is selected, third-party equipment can be directly mounted onto the PCXX upright post, and the kit also provides internal conduits for cable routing.



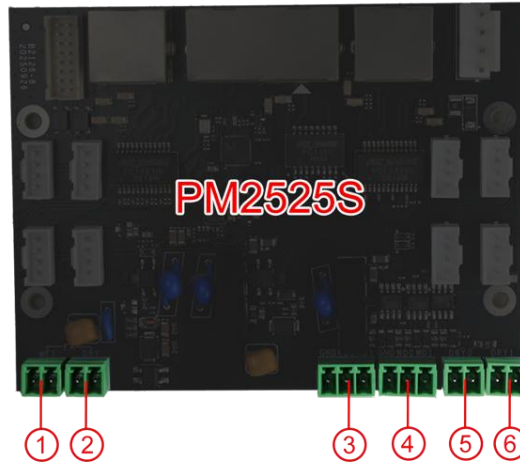
Blind flange

7) **Cable channels at the bottom of the easy Installation base:** Under the easy installation base, two cable channels are reserved for routing wires of fire alarm signals, Wiegand, RS485, RS232, and relay cables.



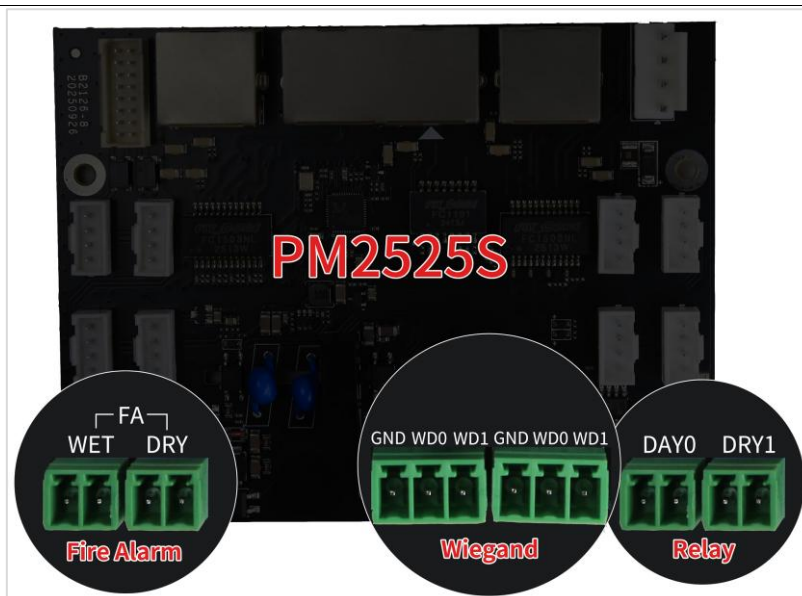
2. Main Interfaces Description

2.1. PM2525S

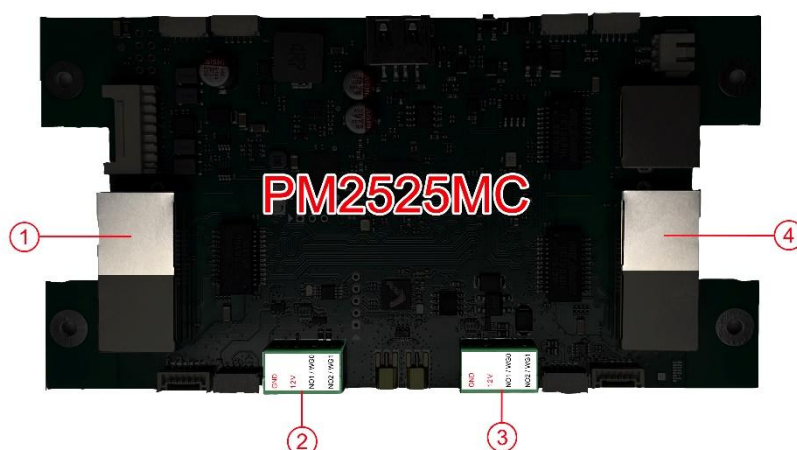


- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal;
- ③. Wiegand interface: connect to the Wiegand data cable of the access control panel for the left-side passage in the entry direction;
- ④. Wiegand interface: connect to the Wiegand data cable of the access control panel for the right-side passage in the exit direction;
- ⑤. Relay: connect to the door control signal of the access controller for the left-side passage in the entry direction;
- ⑥. Relay: connect to the door control signal of the access controller for the right-side passage in the exit direction.

The PINs for the Relay and Wiegand interfaces are as follows:



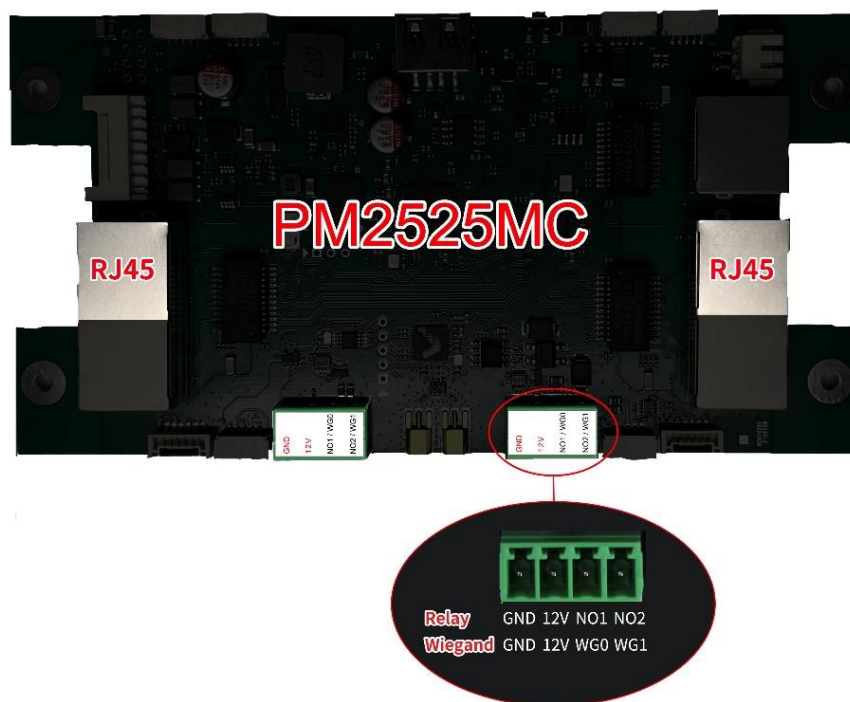
2.2. PM2525MC



- ①. RJ45: For E2462/E2472 models: Connects to the network port of the integrated access control unit; For E2463/E2473 models: Connect to the network port of the integrated card reader and access control unit on the right-side passage (exit direction);
- ②. Relay: For E2462/E2472 models: Connects to the door control signal of the integrated card reader and access control unit; For E2463/E2473 models: Connect to the door control signal of the integrated card reader and access control unit on the right-side passage (exit direction);

- ③. Relay: For E2462/E2472 models: Connect to the door control signal of the integrated card reader and access control unit; For E2463/E2473 models: Connect to the door control signal of the integrated card reader and access control unit on the left-side passage (entry direction);
- ④. RJ45: For E2462/E2472 models: Connect to the network port of the integrated card reader and access control unit; For E2463/E2473 models: Connect to the network port of the integrated card reader and access control unit on the left-side passage (entry direction).

The PINs for the Relay / Wiegand combo interfaces are as follows:



3. Seven Integration Solutions

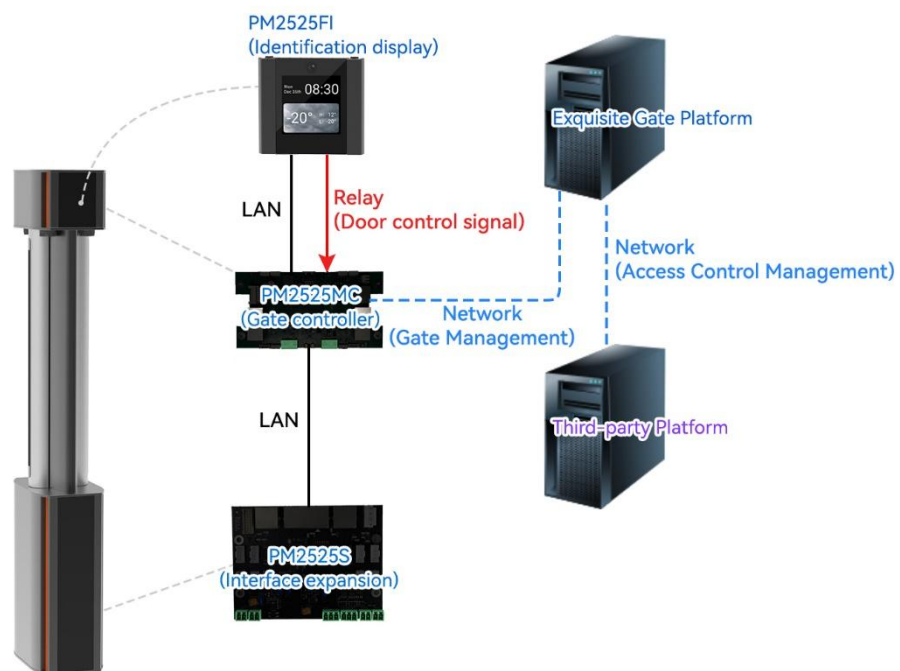
Our gate provides a total of seven third-party Integration Solutions:

- 1) **Speed Gate Platform and third-party platform integration:** The speed gate network platform and third-party platforms transmit data directly via Open APIs. Open APIs can be a third-party or speed gate platform;
- 2) **Third-party platform integration with the speed gate open API:** The speed gate identification module PM2525FI provides Open APIs for integration, allowing third-party platforms to directly push data to the module via Open APIs;
- 3) **Speed gate integration with Third-Party Platform Callback API:** After collecting the passer information at the speed gate, the system invokes the third-party platform's callback API (specifications provided by Exquisite) to authenticate users.
- 4) **The Exquisite identification module integration with third-party access controller:** The gate identification module has a built-in card reading functionality, which can read the card number of the A/B card of 14443 type, and the card number is transmitted to a third-party access controller through the **Wiegand** signal line for authentication. It is not applicable if the access cards are encrypted or RF cards with frequency not 13.56 MHz;
- 5) **Third-party card reader + access controller integration:** Replace the display module PM2525FI with the upper vertical card reader mounting panel, install the card reader either on the mounting panel or on an external upright post, and connect it directly to the access controller via Wiegand/RS485/RS232. After card reading, the card number data is transmitted to the access controller for

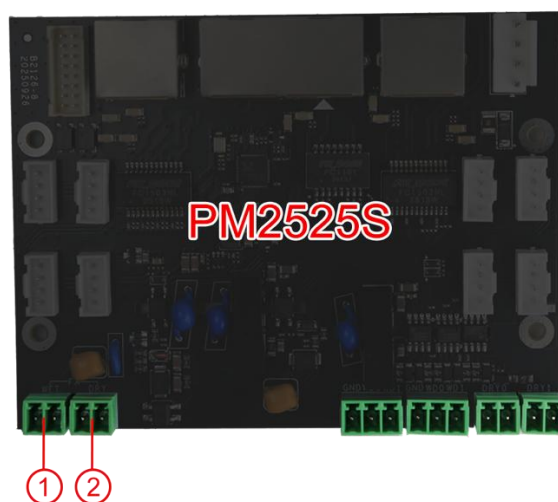
authentication, and the door control signal is fed back to the relay on the interface expansion board PM2525S;

- 6) **Third-party all-in-one access control unit integration.** The all-in-one access control unit includes card reading function and access control function, which is directly connected to the third-party platform through the network. Replace the display module PM2525FI with the upper vertical card reader mounting panel, and install the card reader either on the mounting panel or on an external upright post. The network and relay cables are connected to the controller PM2525MC. After card reading and access control authentication are completed, the door opening signal is output to the relay port of the gate controller PM2525MC (when the integrated device is installed on the card reader mounting panel) or to the relay port of the interface expansion board PM2525S (when the integrated device is installed on the post bracket);
- 7) **Third-party [card reader - access controller] and [face recognition all-in-one unit] integration:** Based on Option 5, integrate face recognition all-in-one units (with built-in access control). The network ports and relays of the face recognition all-in-one unit are connected to the gate controller PM2525MC, and connects to a third-party platform via network. The control signal from the Access Controller is output to the relay ports of the Interface Extension Module PM2525S, whereas the control signal from the All-in-One unit is output to the relay ports of the Controller PM2525MC.

4. Solution 1: Exquisite Speed Gate Platform and Third Party Platform Integration



4.1. Interface Connections



- ①. Wet interface: connect to fire alarm signals;
- ②. Dry interface: connect to fire alarm signals.

4.2. Open API of Speed Gate Platform

Solution Description:

- Use the Open API of the speed gate network platform ([Open API](#));
- The third-party platform synchronizes management data, such as whitelists and access permissions into the speed gate platform through the speed gate Open API.
- Daily whitelist personnel data and access authority management are carried out on third-party platforms and updated in real time;
- Speed gate equipment management is carried out on the speed gate platform;
- The identification display module PM2525FI and controller PM2525MC are connected to the speed gate platform, directly verify the whitelist permission, and output the speed gate control commands to the PM2525MC's relay interface.
- The speed gate supports complete identification methods (card, mobile phone Bluetooth, QR code, etc.);
- The speed gate maintains its original aesthetic design.

4.3. Open API of Third-party Platform

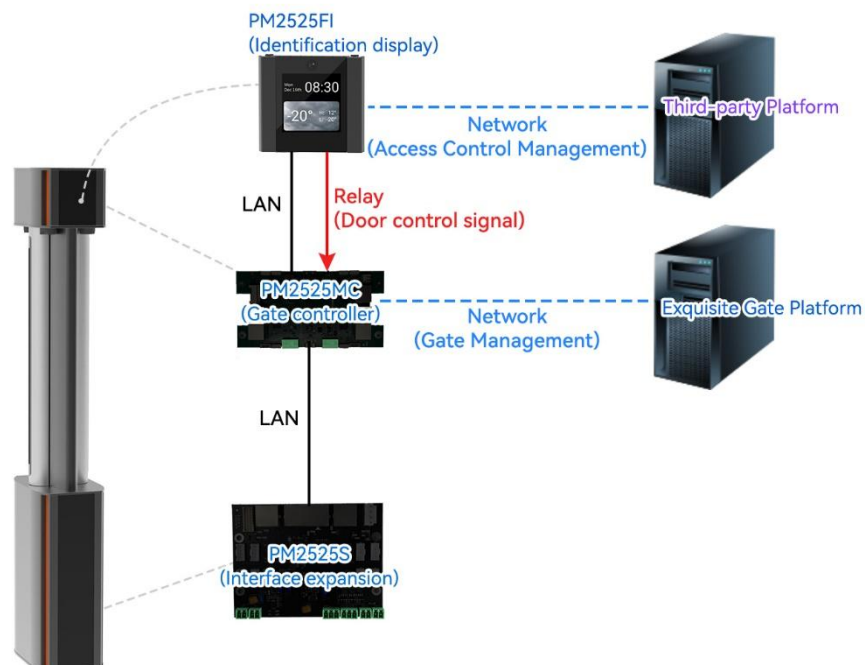
Solution Description:

- Use the Open API of a third-party platform;
- The speed gate platform regularly pulls management data such as whitelist and access rights from the third-party platform through the Open API of the third-party platform.

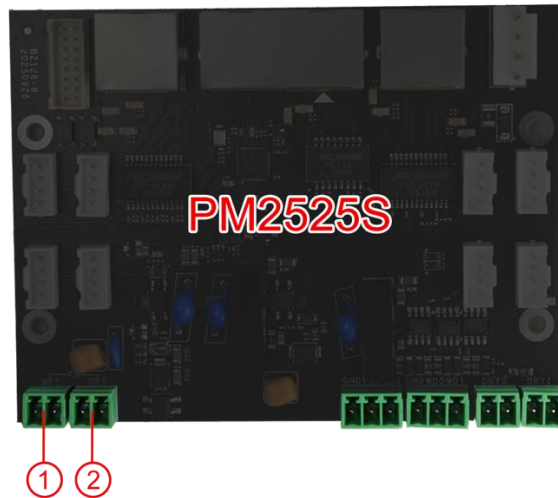
- Daily data management is carried out on a third-party platform and updated regularly;
- PM2525FI access to the speed gate platform, directly verify the whitelist permissions, and output the speed gate control command to the s relay point of PM2525MC;
- The speed gate supports complete identification methods (card, mobile phone Bluetooth, QR code, etc.);
- The speed gate maintains its original aesthetic design.

5. Solution 2: Third-party Platform Integration with Speed Gate

Open API



5.1. Interface Connections



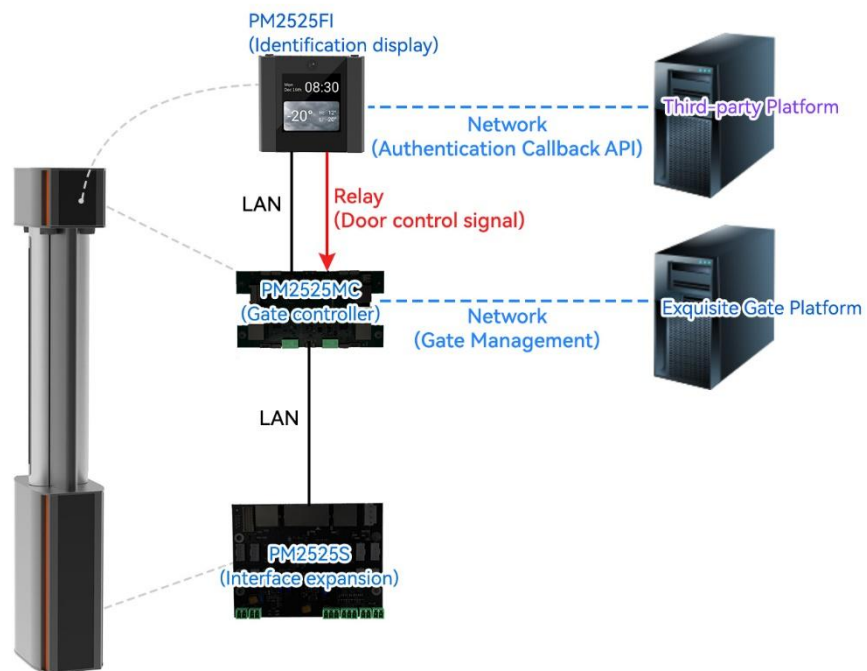
- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal.

5.2. Solution Description

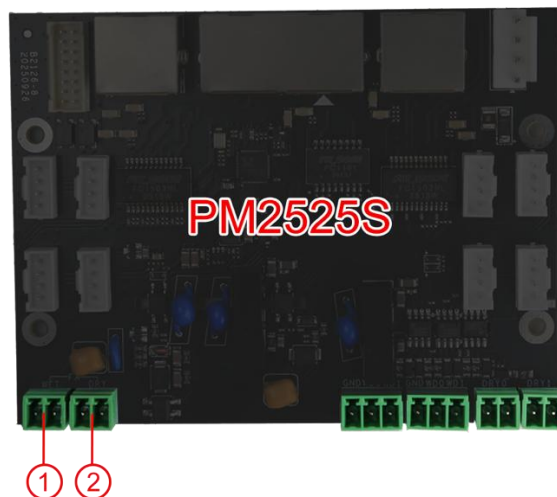
- Speed gate provides open API for Integration;
- The third-party platform injects management data such as whitelist and permissions into the identification display module PM2525FI through the speed gate Open API.
- The PM2525FI verifies the whitelist permission directly, and output the speed gate control command to the PM2525MC's relay port.
- Daily whitelist personnel data and access authority management are carried out on third-party platforms and updated in real time;
- Speed gate equipment management is carried out on the speed gate platform;
- The speed gate supports complete identification methods (NFC, mobile phone Bluetooth, QR code, etc.);
- The speed gate maintains its original aesthetic design.

6. Solution 3: Speed gate integration with Third-Party Platform

Callback API



6.1. Interface Connections

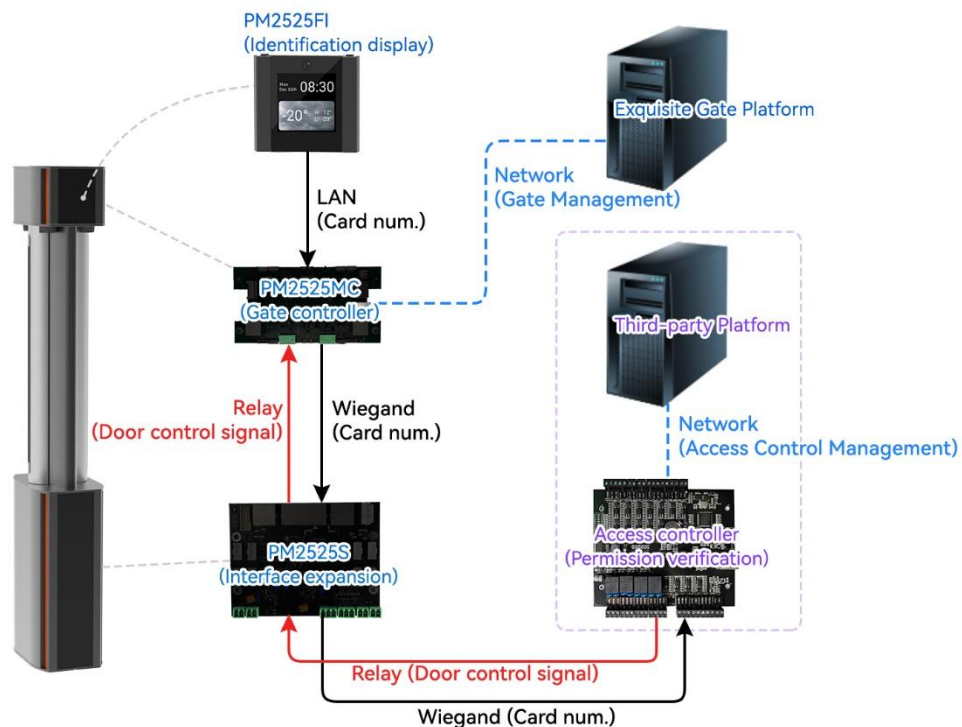


- ③. Wet interface: connect to fire alarm signal;
- ④. Dry interface: connect to fire alarm signal.

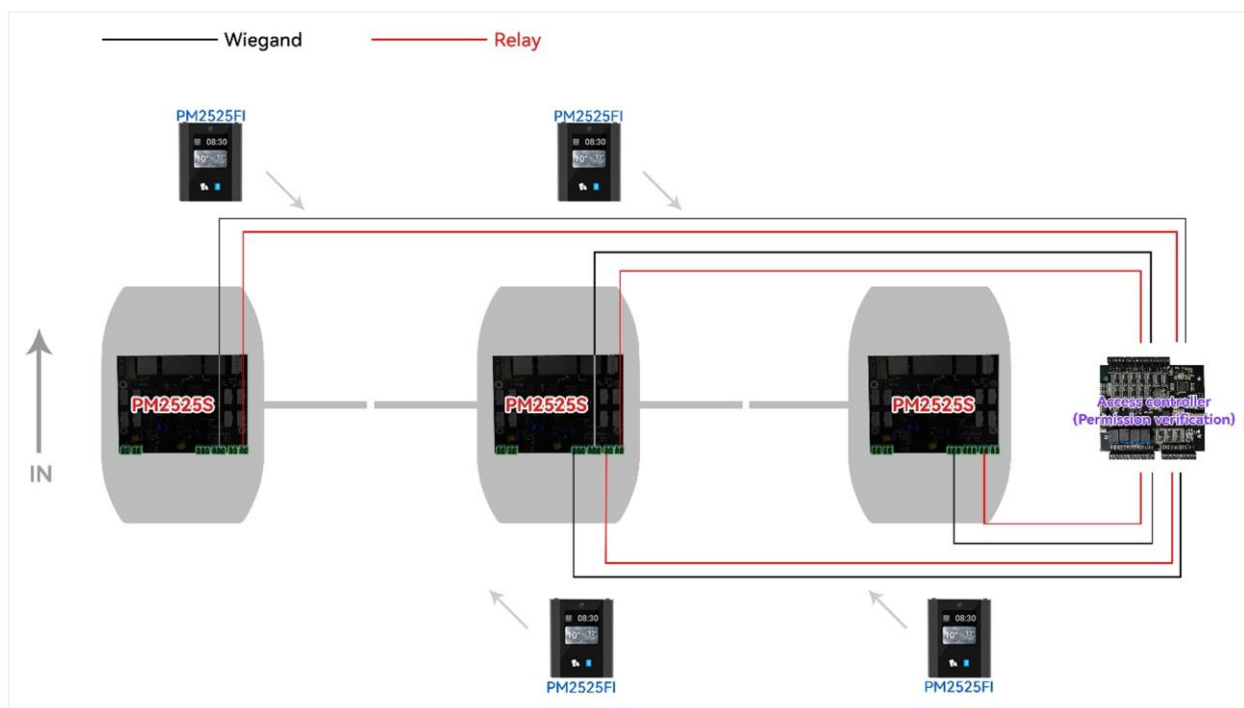
6.2. Solution Description

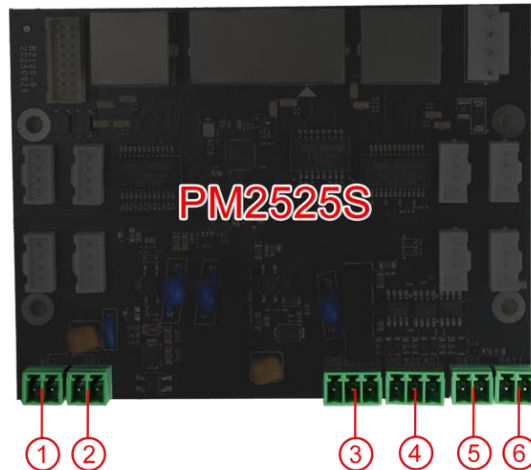
- The authentication callback interface implemented by the third-party platform according to the interface specifications provided by the speed gate;
- After collecting the passer's information (such as NFC card, phone number, email, etc.), the speed gate's identification module triggers the authentication callback API to verify identity. The resulting control signal is then output to the relay of the speed gate controller (PM2525MC) to trigger door opening.
- The third-party platform can customize the text message displayed when the door opens.
- Daily whitelist personnel data and access authority management are carried out on third-party platforms, and all the personnel data is also stored on the third-party platform;
- Speed gate equipment management is carried out on the speed gate platform;
- The speed gate supports identification methods: NFC, mobile phone Bluetooth, QR code;
- The speed gate maintains its original aesthetic design.

7. Solution 4: Exquisite identification module + Third-party Access Controller Integration



7.1. Interface Connections





- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal;
- ③. Wiegand interface: connect to the Wiegand data cable of the access control panel for the left-side passage in the entry direction;
- ④. Wiegand interface: connect to the Wiegand data cable of the access control panel for the right-side passage in the exit direction;
- ⑤. Relay: connect to the door control signal of the access controller for the left-side passage in the entry direction;
- ⑥. Relay: connect to the door control signal of the access controller for the right-side passage in the exit direction.

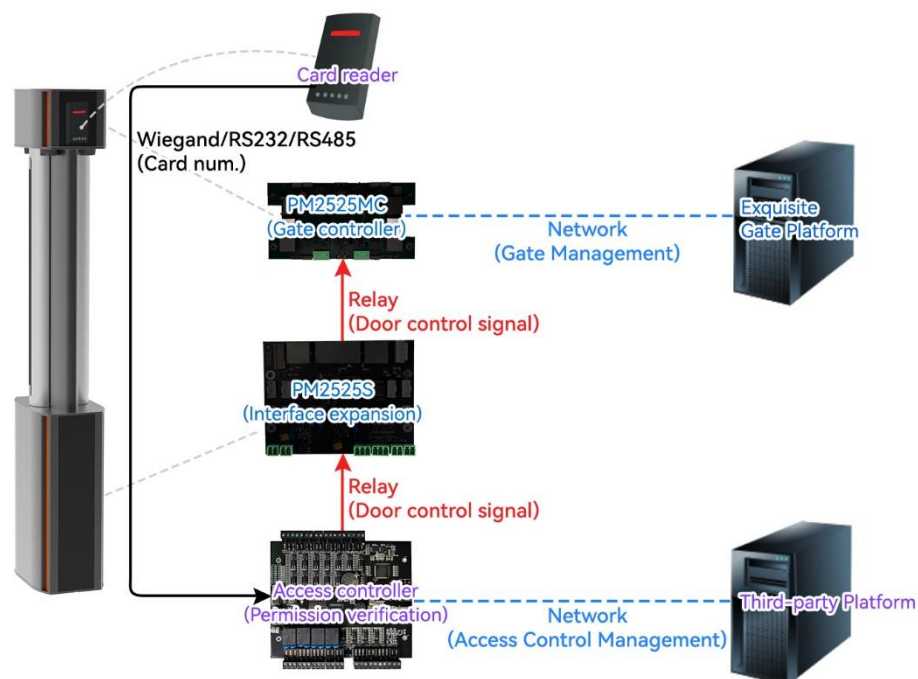
7.2. Solution Description

- The built-in identification display module PM2525FI of the speed gate itself is used as a card reader to read the UID of ISO 14443 Type A/B cards. Note: This solution is incompatible with encrypted access cards or the reading frequency is not 13.56MHZ;

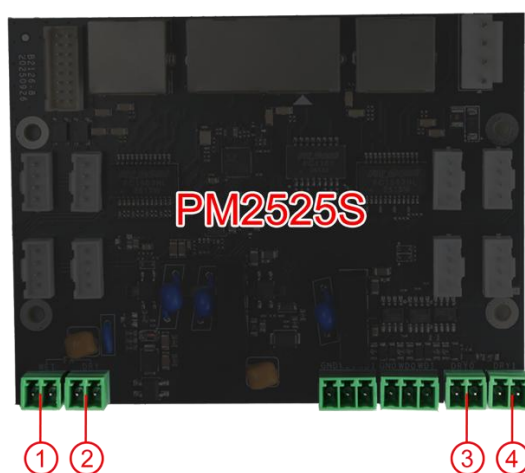
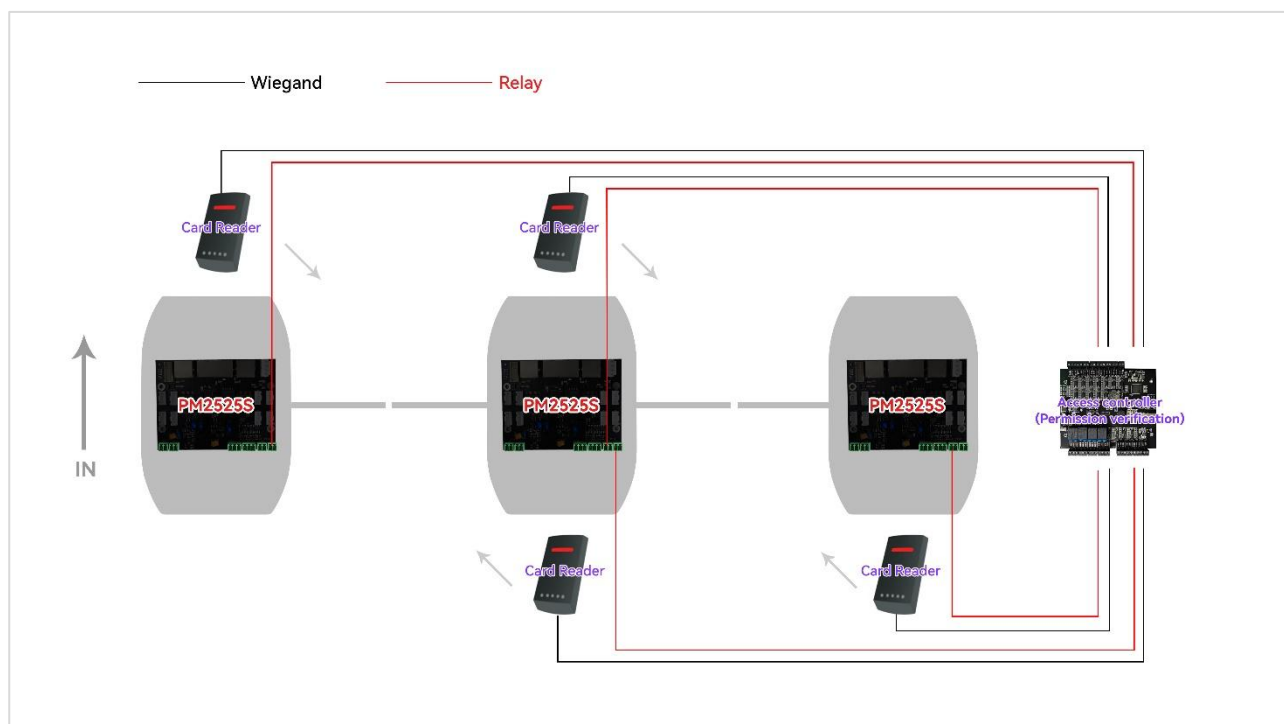
- The PM2525FI connect the speed gate controller PM2525MC by RJ45, and the card data is converted to Wiegand protocol data by PM2525MC, which is forwarded to the access controller through interface expansion board PM2525S;
- After the access controller completes the authority verification, the signal to control door is transmitted to the relay port of PM2525S to complete the door opening;
- The Wiegand protocol requires configuration of parameters such as bit width, data offset, and parity check.

8. Solution 5: The Third-party All-in-One Access Control Unit

Integration



8.1. Interface Connections

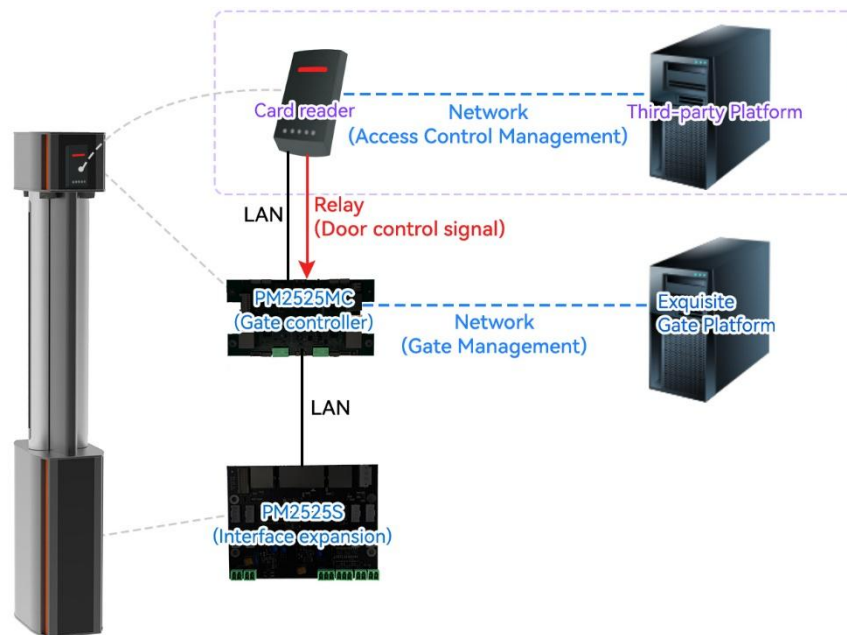


- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal;
- ③. Relay: connect to the door control signal of the access controller for the left-side passage in the entry direction;
- ④. Relay: connect to the door control signal of the access controller for the right-side passage in the exit direction.

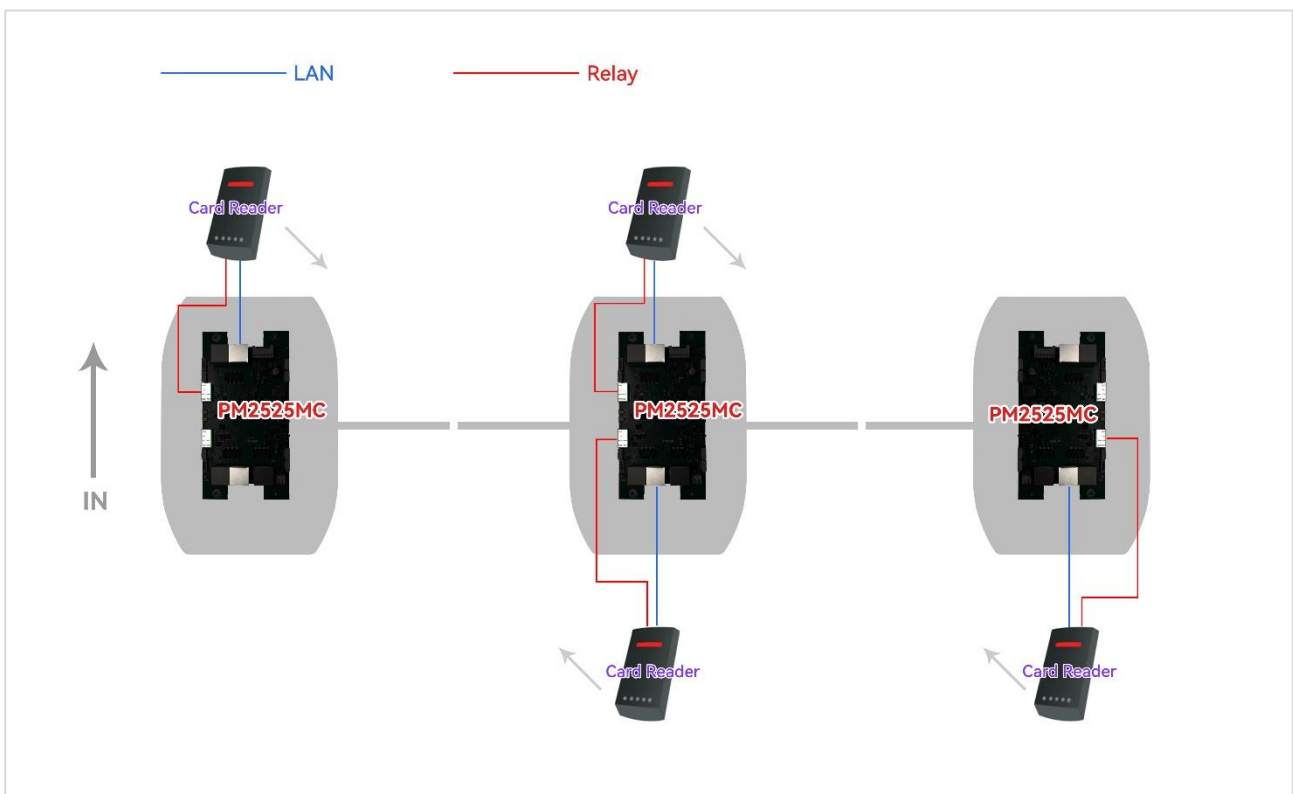
8.2. Solution Description

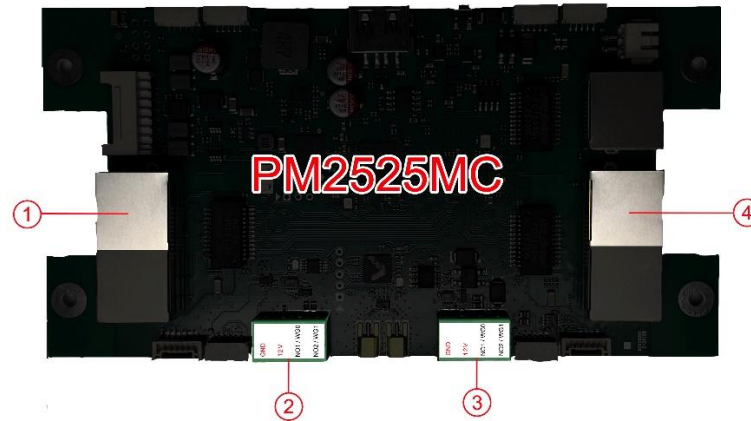
- The third-party card reader is installed on the upper vertical mounting panel or the post bracket;
- If the third-party card reader is installed on the upper vertical card reader mounting panel, the display module PM2525FI must be replaced with the upper vertical card reader mounting panel; if it is installed on an external post bracket, the display module PM2525FI can be retained for use as a display.
- The third-party card reader is connected directly to the third-party the access controller via Wiegand/RS485/RS232 cables, and is powered by the access controller;
- After the access controller completes the authorization verification, the door opening control signal is fed back to the relay port of the interface expansion board PM2525S to complete the door opening.

9. Solution 6: The All-in-One Access Control Unit Integration



9.1. Interface Connections





- ①. RJ45: When used in the E2462/E2472, connect to the network port of the integrated card reader and access control unit; When used in the E2463/E2473, connect to the network port of the integrated card reader and access control unit on the right-side passage (exit direction);
- ②. Relay: When used in the E2462/E2472, connect to the door control signal of the integrated card reader and access control unit; When used in the E2463/E2473, connect to the door control signal of the integrated card reader and access control unit on the right-side passage (exit direction); connect to the door control signal of the integrated device for the left-side passage in the entry direction;
- ③. Relay: When used in the E2462/E2472, connect to the door control signal of the integrated card reader and access control unit; When used in the E2463/E2473, connect to the door control signal of the integrated card reader and access control unit on the left-side passage (entry direction);
- ④. RJ45: When used in the E2462/E2472, connect to the network port of the integrated card reader and access control unit; When used in the E2463/E2473,

connect to the network port of the integrated card reader and access control unit on the left-side passage (entry direction).



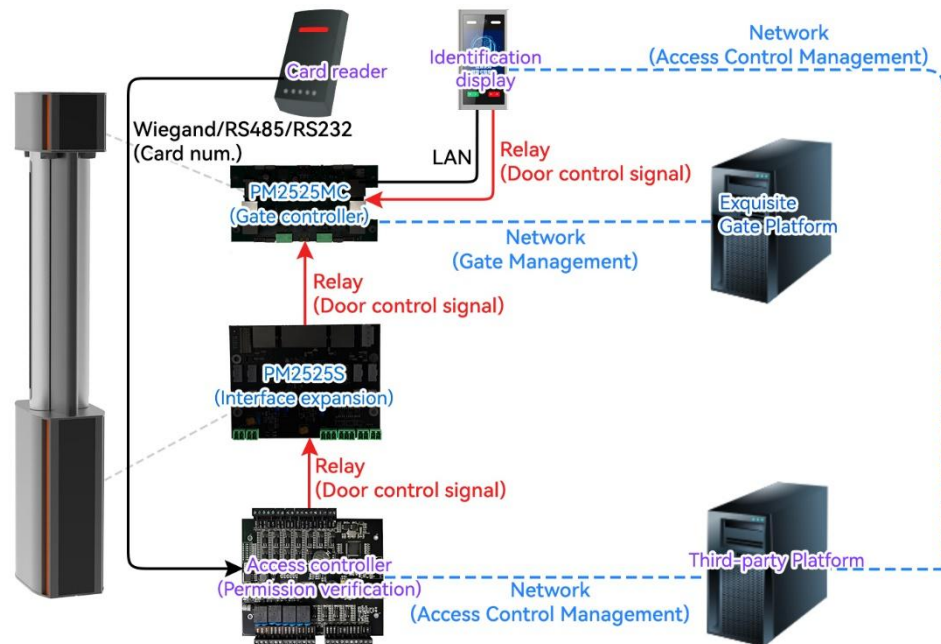
- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal.

9.2. Solution Description

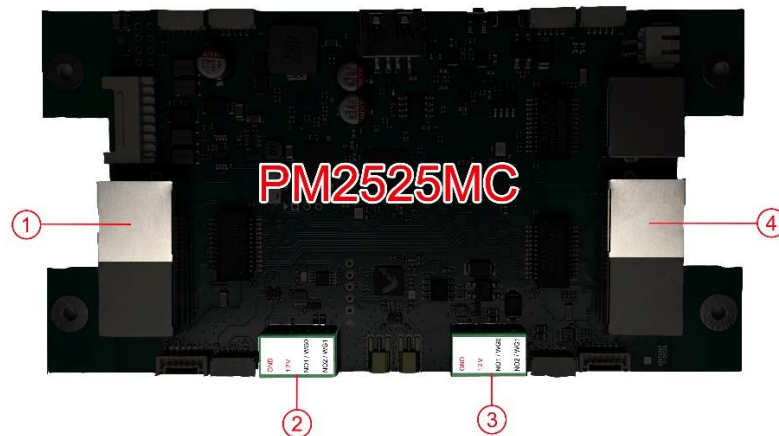
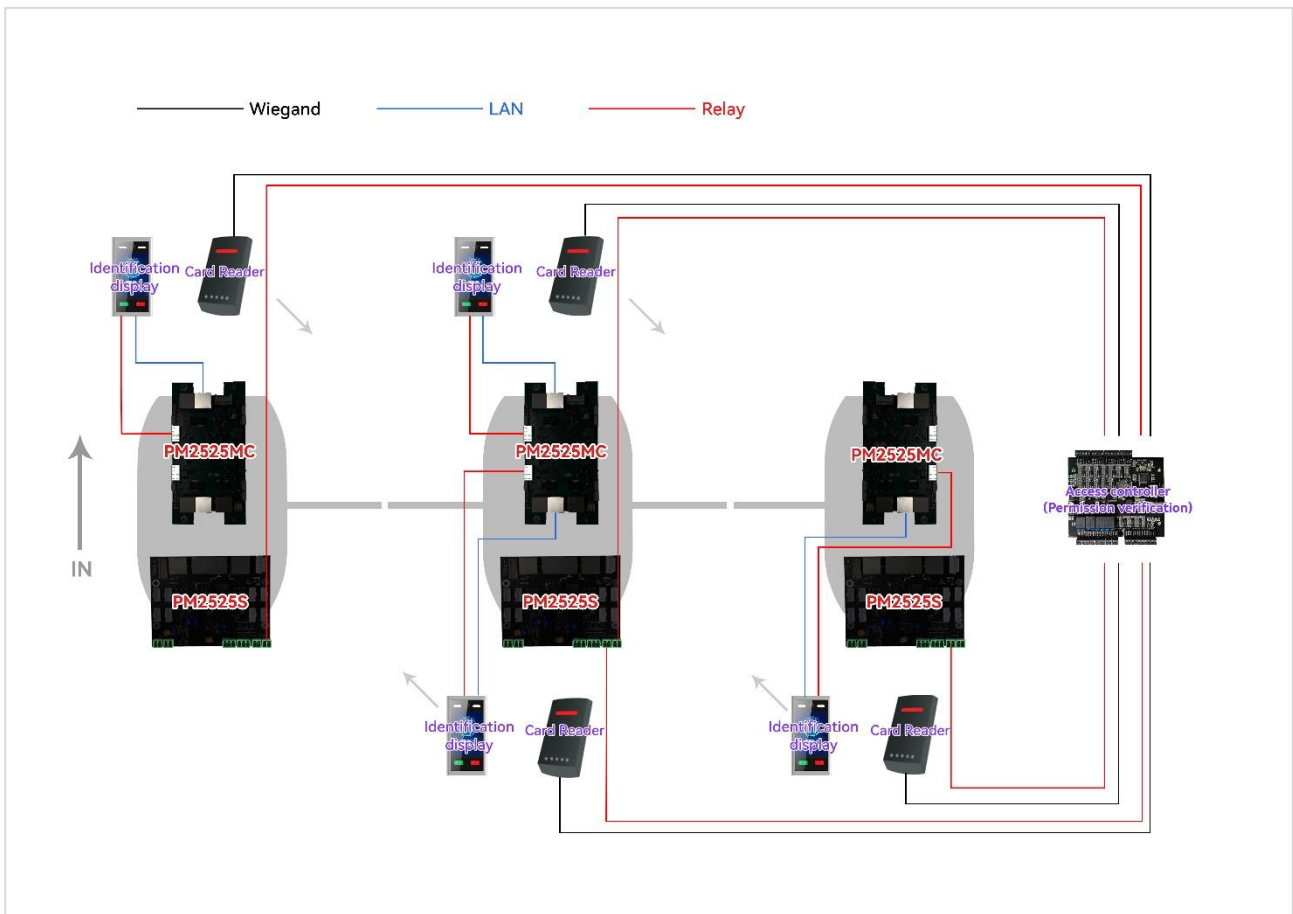
- It is suitable for networked all-in-one access control unit;
- The all-in-one access control unit is mounted on the vertical panel or the post bracket, and is powered by the speed gate;
- If the third-party integrated card reader and access controller is installed on the vertical card reader mounting panel, the display module PM2525FI must be replaced with the vertical card reader mounting panel; if it is installed on an external post bracket, the display module PM2525FI can be retained for use as a display.
- The network cable and the switch signal cable is connected to the RJ45 port and relay port of the gate controller PM2525MC;

- The all-in-one access control unit directly connects to the third-party platform through network;
- After the all-in-one access control unit reads the card and completes the authentication, the access control signal is fed back to the relay point of the gate controller PM2525MC to complete the door opening.

10. Solution 7: [card reader - access controller] and [face recognition all-in-one unit] integration

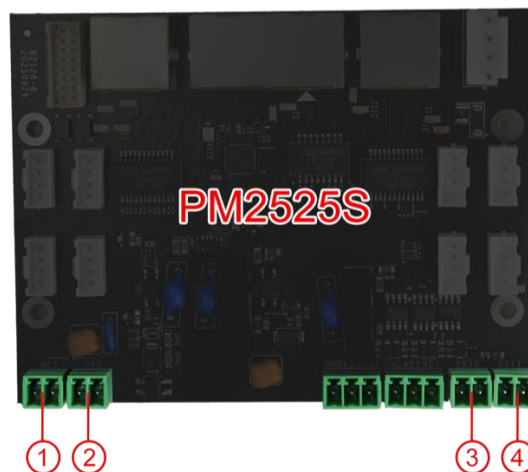


10.1. Interface Connections



- ①. RJ45: When used in the E2462/E2472, connect to the network port of the face recognition all-in-one unit; When used in the E2463/E2473, connect to the network port of the face recognition all-in-one unit on the right-side passage (exit direction);

- ②. Relay: When used in the E2462/E2472, connect to the door control signal of the face recognition all-in-one unit; When used in the E2463/E2473, connect to the door control signal of the face recognition all-in-one unit on the right-side passage (exit direction);
- ③. Relay: When used in the E2462/E2472, connect to the door control signal of the face recognition all-in-one unit; When used in the E2463/E2473, connect to the door control signal of the face recognition all-in-one unit on the left-side passage (entry direction);
- ④. RJ45: When used in the E2462/E2472, connect to the network port of the face recognition all-in-one unit; When used in the E2463/E2473, connect to the network port of the face recognition all-in-one unit on the left-side passage (entry direction).



- ①. Wet interface: connect to fire alarm signal;
- ②. Dry interface: connect to fire alarm signal;
- ③. Relay: connect to the door control signal of the access controller for the left-side passage in the entry direction;

- ④. Relay: connect to the door control signal of the access controller for the right-side passage in the exit direction.

10.2. Solution Description

- The Identify display module PM2525FI must be replaced with the vertical mounting panel (blind panel);
- The face recognition all-in-one unit is mounted on the vertical panel, and is powered by the speed gate;
- Both the network cable and the relay wires of the face recognition all-in-one unit are connected to the corresponding interfaces on the gate controller PM2525MC;
- The card reader is mounted on the post bracket. The Wiegand/RS485/RS232 cables pass through the installation base and connect directly to the access controller, which also provides the power supply;
- When a user swipes their card, the access controller verifies the authorization and outputs the door-opening control signal to the relay of the PM2525S to complete the door opening process;
- When a user performs face recognition, the face recognition all-in-one unit verifies the authorization and outputs the door-opening control signal to the relay of the PM2525MC to complete the opening process.