SJT-WCR2 Remote Monitor Device

(Wired & Wireless)

User Manual

Version: V1.0

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Chapter 1 Specification of main components

1.1 Elevator Remote Monitor Device (wired& wireless) (SJT-WCR2-WL1)



Figure 1.1 SJT-WCR2-WL1 photo

SJT-WCR2-WL1 is used for elevator with Bluelight control system, to achieve remote monitoring function.

This product is installed in elevator control cabinet with antenna outside. It can connect to internet through 2.4G wireless (mode 1) or LAN (mode 2).

Mode 1: Use LAN connection to "Elevator Cloud" platform. Meanwhile, it supplies a hotspot for other wireless devices to connect.

Mode 2: Use 2.4G WIFI to connect to internet and switch in "Elevator Cloud" platform. Meanwhile, it supplies a LAN port for other devices to connect.

1.1.1 Characteristic

- ♦ Industrial grade MCU with stable performance;
- ♦ Four layer circuit board with high anti-interference and reliability;
- ♦ CAN bus communication, directly connected to Bluelight elevator control system;
- \diamond Metal shield;
- ♦ External antenna, stable signal.

1.1.2 Application

♦ Remote monitoring, debugging, and maintenance of elevators.

1.1.3 Power specifications

♦ 24V Power: 24VDC±15% 400mA.

1.1.4 Working conditions

- ♦ Working temperature: -20° C--70°C;
- ♦ Working humidity: <95%, no condensation.

1.2 Installation dimension

L x W x H: 109*102*30mm.



Figure 1.2 SJT-WCR2-WL1 Dimension (Uint: mm)

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Chapter 2 System Installation and Debugging

2.1 Wiring diagram

SJT-WCR2-WL1 has 4 wires for connecting to Bluelight control system as following.





Chart 2.1 SJT-WCR2-WL1 Terminal Definition

Terminal	Pin	Lable	Definition				
	JP1-1	+24V	To 24V Power				
JP1-2 GND To ground							
JPI	JP1-3	C+	To system CAN communication +				
	JP1-4	C-	To system CAN communication -				
JP2	JP2	JP2	Connect to Bluelight Operator or Bluetooth Module				
	WAN/LAN	network	Connect network cables to connect routers or				
VVAN/LAN		interface	devices that require networking				

2.2 Elevator (Integrated Controller) mainboard remote monitor parameter enable

Far	Monitor	Able⊬
		Yes⊷

The setting method can be found in section 6.23 of the "BL6-U Series Serial Integrated Controller User Manual" for remote monitoring.

2.3 Debugging

2.3.1 SJT-WCR2-WL1 Product Manual

SJT-WCR2-WL1 front and rear panels are shown in the following figure.









- ♦ Power indicator
- Power indicator, lighting constantly on during operation.
- ♦ Network indicator light, indicating GSM network status

Constantly off: GSM unit not working;

Fast flashing 1 (0.1 sec on, 0.8 sec off): Searching GSM network (If this state is maintained for a long time, check the SIM card installation and network signal strength);

Slow flashing (0.1 sec on, 3 sec off): Register to GSM network (Initializing);

Fast flashing 2 (0.1 sec on, 0.3 sec off): Register to GPRS network (Normal working).

Communication indicator
Flicker: SJT-WCR2-WL1 in communication with remote monitoring;
Constantly off: None communication.

- ♦ Maintenance indicator (reserve).
- \diamond Maintenance button (reserve) .

2.3.2 Debugging manual

When installing and using SJT-WCR2-WL1 product for the first time, please follow the following steps:

• By default, wired network links are used (automatic IP acquisition method), and no configuration is required. For example:

If connecting to a wired network interface (a regular home router) that supports DHCP, only connect the network cable, device power and communication cables, antenna, and power on to work normally without any debugging on the device side. (The monitoring platform needs to bind devices, which can be bound through the barcode pasted on the device (visible and readable to the naked eye).

If you need to switch wireless network connections, in addition to using Bluetooth module or operator, you can connect the device's wireless hotspot: SJT-WCR2-WL1 through computer or mobile phone. Then, access 192.10.10.1:8081 through a browser, and a configuration page (similar to the wireless router configuration method) will pop up. Fill in the corresponding parameters on the configuration page, submit and save them.

Note: If SJT-WCR2-WL1 is powered on by plugging and unplugging the JP1 terminal, as the instantaneous current can reach over 1A, it should be done when the elevator is not running.

- After the product SJT-WCR2-WL1 is powered on, observe the display indicator light. After about 8 seconds of power on, SJT-WCR2-WL1 enters the initialization state:
 - Power light: Always on. If not, immediately cut off the power and check the wiring;

Network light: constantly off: GSM unit not working;

Fast flashing 1 (0.1 sec on, 0.8 sec off): Searching GSM network (If this state is maintained for a long time, check the SIM card installation and network signal strength);

Slow flashing (0.1 sec on, 3 sec off): Register to GSM network, initialization is currently underway, please be patient and wait;

Fast flashing 2 (0.1 sec on, 0.3 sec off): Register to GPRS network, initialization passed, the system enters normal operation, and the status light will remain in this state.

Note: If it cannot enter the normal operating state, SJT-WCR2-WL1 will automatically restart.

- If the network light enters the fast flashing 2 state, it indicates that SJT-WCR2-WL1 product has successfully run. At this time, SJT-WCR2-WL1 product will be able to connect to the server and provide remote monitoring function.
- SJT-WCR2-WL1 product prompt:

1. This product transmits/receives radio waves, and its design complies with current laws and regulations. However, to prevent interference with other electronic devices during operation, it is necessary to comply with the recommendations and regulations of the place of use.

2. When the product is disconnected from the power supply equipment, the product has a backup power supply to ensure short-term operation. When the power indicator light is completely off, it indicates that the product is not in working state.

3. Live plugging and unplugging of wiring terminals should be carried out when the elevator is not running or during maintenance.

4. The explanation of this product belongs to our company and is subject to change without prior notice.

Chapter 3 Operator and Elevator Expert APP Commissioning

Instructions

Through operator or elevator expert app, users can set and view device parameters. Before debugging, it is necessary to ensure that the parameter settings are correct.

Note: The default operation mode is operator when device power on. If you want to use elevator expert app for debugging, please follow the following steps:

1. Insert the equipped Bluetooth module into the device JP2 port and power on the device.

2. Open mobile Bluetooth ->Open elevator expert APP ->Settings ->Bluelight motherboard debugging ->Turn on debugging (ON).

3. Click the down arrow more than 10 times until the interface appears.

4. This method currently only supports Android phones.

Menu —— Return to main interface

Enter —— Enter the lower level menu or confirm when changing

parameters

evious menu

The device supports configuration through wireless hotspots, which can be connected to the device's wireless hotspot through a computer or mobile phone: SJT-WCR2-WL1. Then, access the 192.10.10.1:8081 address through a browser, and a configuration page (similar to the wireless router configuration method) will pop up. Fill in the corresponding parameters in the configuration page and submit and save it.

3.1 Main menu

First Line:

N:XX OK (Operating status: hexadecimal representation, 0D indicates normal, and displaying OK indicates normal operation)

S:00 (reserve) C:00 (reserve) Second Line: Error Code: ER-F: Flash abnormal ER302: CAN communication abnormal ER***: Elevator Fault Code

3.2 Parameter Setting

Press "Enter" in main menu to enter parameter setting menu.

3.2.1 Setting Monitor Function Enable



This interface can be set to enable remote monitoring function.

3.2.2 Voice Enable

S 0 1	Audio	Enable	Enter	S 0 2	Audio	Enable
		Enter	Esc	ΝO		

This interface can be set to enable voice broadcasting function (wireless & wired version does not have voice function).

3.2.3 Service Type Setting

MQTT means accessing elevator cloud platform (www.diantiyun.com) through the MQTT protocol.

3.2.4 Monitor Platform IP Address Setting



View and set the IP address of the monitoring platform on this interface. After setting, perform the save operation in the save menu.

3.2.5 Monitor Platform Port Setting

View and set the port number of the monitoring platform on this interface. After setting, perform the save operation in the save menu.

3.2.6 Network Type Setting



This interface allows users to view and set device networking Type.

Mode 1: AP+WAN: Connect to network with wired network (The device's WAN port needs to be connected to the router's LAN port) and provide a wireless hotspot (AP mode) SSID2 for other wireless devices to connect to network.

Mode 2 STA+LAN: Use wireless 2.4G WIFI (STA mode) SSID1 to connect to network, while providing a wired network interface (device LAN port) for other wired devices to connect to network.

3.2.7 Device ID



You can view the device ID in this menu. The platform registration binding elevator is based on this ID, and modification function is not currently available.

3.2.8 Save Parameter



After setting each parameter, save it to ensure these parameter settings are still valid after power off. After successfully saving, press "Esc" button to return to save parameter interface.

3.2.9 Restore to factory setting

SO8 Factary Para	Enter	SO8 Factary	Para	Enter	S 0 8	Factary	Para
Enter	Esc	Confirm?		Esc	Suco	ess!	

If parameter errors are caused by interference, customer may restore to factory setting and then save parameters.

3.2.10 Setting Heartbeat Interval with Server

S 0 9	Tick	Time	Enter	S 0 9	Tick	Time	
		Enter		120			

This interface allows users to view and set the heartbeat interval between the terminal and platform (seconds).

3.2.11 Internal Network Module Setting

S 1 0	M o d u l e	Туре	Enter	S10 Module Type
		Enter	Esc	H F A 2 1

This interface allows users to view and set internal network module. Without special instructions, customers should not set this parameter.

3.2.12 WIFI Parameter Setting

S 1 1	WIFI	Para	Enter	S11.1	1 SSID	1
		Enter	Esc	SSIDN	NONE	
					\wedge	
				S 1 1 . 2 1 2 3 4 5	2 Key1 5678	
					\wedge	
				S 1 1 . 3 W P A 2 H	3 Key1 PSK	Auth
					\wedge	
				S 1 1 . 4 T K I P A	4 Key1 AES	Encry
					\wedge	
				S 1 1 . 5 S J T - V	5 SSID VCR2–W	2 L 1
					\wedge	
				S 1 1 . 6 1 2 3 4 5	5 Кеу2 5678	
					$\sqrt{1}$	
				S 1 1 . 7 W P A 2 H	7 Key2 PSK	Auth
				S 1 1 . 8 T K I P /	8 Key2 AES	Encry

This interface allows users to view and set WIFI parameters.

SSID1: SSID to access wireless network (only used in STA+LAN mode)

Key1: Password of the wireless network to be connected (only used in STA+LAN mode)

Key1 Auth: The authentication method of the wireless network to be accessed (only used in STA+LAN mode, not support WEP)

Key1 Encry: The encryption algorithm for the wireless network to be connected (only used in STA+LAN mode)

SSID2: The SSID of the wireless network provided by the device

Key2: The password for the wireless network provided by the device

Key2 Auth: The authentication method of the wireless network provided by the device (not support WEP)

Key2 Encry: Encryption algorithm for wireless networks provided by devices

Cautions!

SSID2 is also used as an access point for configuration, and when configuring parameters through WIFI, SSID2 needs to be connected.

3.2.13 Network Parameter Setting

S 1 2	WAN+LAN Para Enter	Enter S12.1 WAN IP Esc 0.0.0.0	
<u>.</u>			
		S12.2 WAN Mask 0.0.0.0	
		\checkmark	
		S 1 2 . 3 W A N G W O . O . O . O	
		\checkmark	-
		S12.4 WAN DHCP YES)
		S 1 2 . 5 L A N I P 1 9 2 . 1 0 . 1 0 . 1	
		S12.6 LAN Mask 255.255.255.0	
		\wedge	
		S 1 2 . 7 L A N G W 1 9 2 . 1 0 . 1 0 . 1	
		S12.8 WAN DHCP YES)

This interface allows users to view and set WAN+LAN parameters: WAN IP: The IP address of the device after it is connected to the network WAN Mask: The subnet mask for device access to the network WAN GW: Gateway address for device access to the network WAN DHCP: The IP acquisition method after the device is connected to the network (YES: Auto configuration, NO: manual setting)

LAN IP: The device IP address of the network provided by the device

LAN Mask: The subnet mask of the network provided by the device

LAN GW: The gateway address of the network provided by the device

LAN DHCP: The IP allocation method for the network provided by the device (YES: Auto configuration, NO: manual setting)

3.2.14 Restart Device

S17 Restart	Enter	S17 Restart	Enter	S17 Restart
Enter	Esc	Confirm?	Esc	Success!

Users can perform device restart through this menu.

3.3 Monitor Interface for Status Checking

3.3.1 Device Status Monitoring



This interface is used to view device status information

C20:CAN communication frame status

M200:CAN communication count

L000: All parameter lengths of motherboard

R01: Received server requests

U01: Response pushed to the server

3.3.2 Software Version

M	0	1	Soft	V	е	r	s	i	0	n
6	9	3	03							

In this interface, you can view the current software version of the collector. (e.g.: 693_02)

3.3.3 Checking Device ID

You can view the device ID in this menu. The platform registration binding elevator is based on this ID .

3.3.4 WAN IP

М	0	3	W	А	N	Ι	Р			
1	9	2.	1	6	8.	0		1	0	1

In this interface, you can view WAN IP addresses.

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3.3.5 LAN IP

M 0 4	LAN	ΙP
192.	10.1	0.1

In this interface, you can view LAN IP.

3.3.6 Device MAC

MO	0	5		M	0	D	U	L	Е		M	A	С	
5 /	A	3	6	8	А	4	2	F	Е	8	9			

In this interface, you can view device MAC.

3.3.7 MQTT Login IP



In this interface, you can view MQTT login IP.

3.3.8 MQTT Login Port



In this interface, you can view MQTT login port.

3.3.9 Debugging Interface



In this interface, you can view device debugging information.

Chapter 4 Elevator Cloud Platform Binding and Checking

4.1 Device binding

• First step: visit elevator cloud platform <u>www.diantiyun.com</u>.



• Second step: Click "Manage Platform" at top right corner of main page to enter login interface. (If without account, please contact with factory to open a new account).



Third Step,: Input account with password and click Login to enter management interface.



• Fourth step: Click on "Device List" under "Device Management" to enter the device management interface.



• Fifth step: Click on "Add Device" in the upper right corner to enter the elevator and device information input interface.

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• Sixth step: On the "Add Device" page, enter the elevator profile and device information (device ID), bind them, then device registration and binding are completed.

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4.2 View elevator

After adding, you can view the corresponding elevator status on the "Device Management" page and click on the elevator you want to view.



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