

Communication Expert of Industrial IOT

Quick Operating Manual

USR-SH800

Integrated Screen of IOT

Edge computing, network management

Built-in configuration, rich in protocols

Open source system, simple configuration

Be Honest & Do Best

Your Trustworthy Smart Industrial IoT Partner

Catalogue

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1. Product introduction

The USR-SH800 is a high-performance 10.1-inch IoT all-in-one display with outstanding advantages. Its exceptional core configuration features the RK3568 chip, equipped with a 4-core 64-bit ARM architecture CPU running at up to 2.0GHz for smooth operation. Built-in WukongEdge edge applications integrate edge computing, configuration, and other functions, enabling easy setup for data collection, computation, and reporting, combined with configuration for local display. The CPU includes an AI neural network processor (NPU) with 1.0 TOPS computing performance, supporting various AI development tools and interfaces.

On the system side, it comes pre-installed with Linux Ubuntu 20.04, offering a desktop environment for convenient development. It boasts rich hardware interfaces and robust drivers, including multiple serial ports, USB 3.0, HDMI, and more, catering to diverse application scenarios. The flexible installation options support both rail and bracket mounting for quick and easy setup. Whether in terms of performance, functionality, system, hardware, or installation, the USR-SH800 demonstrates superior quality and practicality, making it an ideal choice for IoT applications.

2. Unpack

USR-SH800 factory neutral packaging, there is a small label on the outer packaging box, as a delivery and warehousing inspection use, marked with SN and product model; the packaging box mainly contains products and accessories, accessories table is as follows:

| Product type | Accessories | Explain |
|----------------|--|--------------|
| USR-SH800 (EW) | 12V/3.3A power supply, WiFi antenna, Screw, Mounting | WiFi version |
| | ear, Terminal *4, Certificate | |

Physical drawing:



3. Hardware connection

3.1. Interface introduction



RS485/RS232 interface introduction:



| Serial number | Definition | Property | Desc | cribe |
|---------------|------------|------------------|------------------------|---------|
| 1 | 3.3V | output | 3.3V voltage output | • • • • |
| 2 | TX/A | output | TX/A | |
| 3 | RX/B | Input | Receive (RX/B) | 1 4 |
| 4 | GND | Ground electrode | Ground electrode | |

Introduction to the network port:

| Serial number | Definition | Property | De | scribe |
|---------------|------------|-------------|-----------------------|--------|
| 1 | WAN/LAN | Default WAN | WAN/LAN switchable | |
| 2 | LAN | Default LAN | | • * |

3.2. Hardware operating instructions

- 1. After unpacking, take out the equipment and connect it to WiFi antenna (SH800-EW WiFi version);
- 2. To configure the SH800 by directly connecting it to a PC:
 - (1) Connect one end of an Ethernet cable to the LAN port of the SH800, and the other end to your computer;
 - (2) Set the PC's Ethernet connection to obtain an IP address automatically (DHCP);

| \rightarrow " | ↑ 🔄 > 控制面板 > 网络和 Internet > 网络连接 | | く C 在网络连接中提 |
|-----------------------|---|---|-------------------|
| 织▼ 禁用 | 此网络设备 诊断这个连接 重命名此连接 查看此连接的状态 | 更改此连接的设置 | |
| WLAN 未连接 Realte | 盛牙网络连接 来EL8852AE WiFi 6 802 文 ⑧ Bluetooth Device (Personal Ar. | 以太 网 14 网络 54 Realtek USB GbE Family Contr | |
| | 以太网 14 届性 | × Internet 协议版本 4 (TCP/IPv4) 属性 | |
| | 网络 共享 | 常规 备用配置 | |
| | 连接时使用: 🛫 Realtek USB GbE Family Controller #3 | 如果网络支持此功能,则可以获取自动指 络系统管理员处获得适当的 IP 设置。 | 底的 IP 设置。否则,你需要从网 |
| | 配置(C) | ● 自动获得 IP 地址(O) | |
| | 此连接使用下列项目(O): | | |
| | ✓ POS 数据包计划程序 Internet 协议版本 4 (TCP/IPv4) | IP 地址(): | r |
| | □ ▲ Microsoft 网络适配器多路传送器协议 | 子网拖码(U): | |
| | ✓ ▲ PROFINET IO protocol (DCP/LLDP) ✓ ▲ Microsoft LLDP 协议驱动理序 ✓ ▲ SIMATIC Industrial Ethernet (ISO) | 默认网关(D): | |
| | ☑ ▲ Internet 协议版本 6 (TCP/IPv6) | ● 自动获得 DNS 服务器地址(B) | |
| | ☑ ● 链路层拓扑发现源应程序 | ○使用下面的 DNS 服务器地址(E): | |
| 项目 洗中 | 中2時/AD 2016/0 原件/D) | 首选 DNS 服务器(P): | a. a. a. |
| | | 备用 DNS 服务器(A): | |
| | 传输控制协议/Internet 协议。该协议是默认的广域网络协议,用 于在不同的相互连接的网络上通信。 | | |

(3) Connect the power cable properly and power on the device after completing all connections;

(4) Under the default condition of the product, the configuration screen is displayed in full - screen mode after power - on;



(5) If you want to enter the Ubuntu desktop, long press the screen, and then click the cross icon that pops up. You can exit the full-screen configuration mode. After minimizing the browser, you can enter the Ubuntu desktop to perform operations. At this point, the device has been successfully started.

(6) To restart the configuration in full - screen mode on the desktop, you just need to open the minimized interface from the desktop, find the three - dot button in the browser, and maximize the window.





4. Application Parameter Configuration

SH800 has built-in WukongEdge, which is enabled by default. WukongEdge function parameters are mainly configured through built-in WEB. This chapter mainly introduces network parameter configuration, edge calculation parameter configuration, configuration function editing and parameter association.

Note: During use, if WukongEdge is turned off, the built-in WEB cannot be activated.

4.1. Open the WEB interface

WEB interface is an important tool for application parameter configuration. SH800 has two ways to open WEB interface:

• Directly connect the computer into the built-in WEB:

1.hardware connection refer to chapter 3.2;

2. After the device is powered on and fully started, open the browser on the computer side and enter the IP address of the LAN port(default192.168.1.1);

3. Enter user name (default admin) and password (default admin) in the web login interface, which can be modified after logging in;

4.Device basic information and network connection status can be seen on the overview interface.

| ikongEdg | Ge 🕜 Overview | S Network S | Edge Computing | System Management | | | | | | | () () () () () () () () () () () () () (|
|---|--|--|---|--|--|----------------------------|--|--------------------------------|-----------------------------------|--------------------|--|
| ystem Inforr | mation | | | | | Settings | Flow Usage Monitoring | Settings | Performance | e | |
| ame: odel: ersion: pp Version: op Device: | SH800 USR-SH800-EW V1.0.07.000000.0000 V1.2.16.00000.0000 WukongEdge | SN: MAC-1: MAC-2: IMEI: Device Time: | 036001250314000018 D4:AD 20:AE:0F 23 D4:AD 20:AE:0F 24 2025-03-15 10:11:18 | 57 Link 1: Link 2: NodeRed: OS: Runtime: | Disconnected Disconnected OFF Linux 01:05:08 | | Data Usage(Day): Alarm value(Day): Data Usage(Month): Alarm value(Month): | 0.00MB 0MB 0.00MB 0MB | CPU: Memory: Flash: ROM: | 41%) 20% 19% | |
| wAN | S | Settings | Ethernet Port 1 | | Settings | Wireless | | Cellul | ar | | Setting |
| Mode: WAN IP: | DHCP 192.168.11.52 | | Mode: Status: | WAN Connected | | Status: IP: | Connecting | Status: Active S | IM: SIM1 | nang | |
| Gateway: | 192.168.11.1 | | Ethernet Port 2 | | | Gateway: | | Signal L | evel: | | |
| DNS-1: DNS-2: | 119.29.29.29 8.8.8.8 | | Mode: Status: | LAN Disconnected | | SSID: MAC: | | Signal: Connect | ion Time: 00:00 | 00 | |
| LAN | | Settings | Location | | | Signal: Receiving Rate: | - | ICCID: IP Addre | ss: | | |
| LAN IP: Netmask: | 192.168.1.1 255.255.255.0 | | Longitude: | - | | Transmission Rate: | : | Netmasi DNS-1: | e | | |
| DHCP Service: | ON | | Status: Satellite: | v - | | | | DNS-2: TAC(LAC | 3: | | |
| | | | | | | | | | | | |

• Open the built-in WEB based on your own screen(you can also access the mouse and keyboard directly)

1. Hardware connection: access mouse and keyboard through USB interface (use peripheral operation, if direct touch screen operation, ignore this step);

2. Power on the equipment. After the equipment is completely started, press and hold the

configuration interface and click the "X" to exit the configuration interface;



3. Open the browser on the desktop and enter the IP address of the LAN port(default192.168.1.1);

| minger Catoma | | |
|--|--|-----|
| Ø 192.168.1.1#fogin x + | | + × |
| You are using an unsupported command-line flag: -no-sandbox. Stability and security will suffer. | | × |
| | | |
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| | Cogn | |
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4. Enter user name (default admin) and password (default admin) in the web login interface, which can be modified after logging in;

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|--|---|------------------|---|----------------------|--|-------------------------------|---|--|----------------|-----|------|--------|------------|
| → C | A Not secure 1 | 92.168.1.1/#/or | rigin/device/ViewDevice | StatusDetail | | | | 07 | Q | < | ☆ | | 4 |
| re using a | in unsupported comm | and-line flag:nc | o-sandbox. Stability and se | ecurity will suffer. | | | | | | | | | |
| ikongE | Edge 🔃 ov | erview 🔂 i | Network 💮 Edge Co | omputing 💮 Syster | n Managemen | nt | | | | | 16 B | 辦中文 | 6 |
| iystem Inf | formation | | | | Settings | Flow Usage Monitoring | Settings | Perform | ance | | | | |
| ume: | SH800 | SN: | 03600125031400001857 | Link-1: Disconnecter | 1 | Data Usage(Day): | 0.00MB | CPU: | - | 5 | 198) | | |
| odel: | USR-SH800-EW | MAC-1: | D4:AD:20:AE:0F:23 | Link-2: Disconnecter | 1 | Alarm value(Day): | OMB | Memory: | - | 256 | | | |
| rsion: | V1.0.07.000000.0000 | MAC-2: | D4:AD:20:AE:0F:24 | NodeRed: OFF | | Usage(Month): | 0.00MB | | | | | | |
| op Version: | V1.2.16.000000.0000 | IMEI: | | OS: Linux | | value(Month): | OMB | Flash: | 15% | | | | |
| p Device: | WukongEdge | Device Time: | 2025-03-15 09:38:53 | Runtime: 00:32:43 | | | | ROM: | 0% | | | | |
| | | | | | | | | | | | | | |
| evice Sta | atus | Settings | Ethernet Port 1 | Settings | Wireles | ss | Cellula | ar | | | | Settin | <u>at</u> |
| evice Sta WAN Mode: | atus DHCP | Settings | Ethernet Port 1 Mode: WAN | Settings | Wireles Status: | ss Connecting | Cellula Status: | ar | sking | | | Settin | 25 |
| WAN Mode: WAN IP: | atus DHCP 192.168.11.52 | Settings | Ethernet Port 1 Mode: WAN Status: Connecte | Settings | Wireles Status: IP; | SS Connecting | Cellula Status: Active Si | ar netwo IM: SIM1 | orking | | | Settin | 21 |
| WAN Mode: WAN IP: Netmask: | atus DHCP 192.168.11.52 255.255.0 | Settings | Ethernet Port 1 Mode: WAN Status: Connecte | <u>Settinos</u> d | Wireles Status: IP: Netmask: | SS Connecting | Cellula Status: Active SI Network | ar netwo IM: SIM1 Type: | orkang | | | Settio | 21 |
| WAN Mode: WAN IP: Netmask: Gateway: | DHCP 192.168.11.52 255.255.0 192.168.11.1 | Settings | Ethernet Port 1 Mode: WAN Status: Connects | Settions | Wireles Status: IP: Netmask: Gateway: | SS Connecting : | Cellula Status: Active SI Network Signal Le | ar retors IM: SIM1 Type: evel: | orking | | | Settio | <u>a</u> : |
| evice Sta WAN Mode: WAN IP: Netmask: Gateway: DNS-1: | atus DHCP 192,168,11,52 255,255,05 192,168,11,1 119,29,29,29 | Settings | Ethernet Port 1 Mode: WAN Status: Connecte Ethernet Port 2 Mode: LAN | Stituus | Wireles Status: IP: Netmask: Gateway: SSID: | SS Connecting : | Cellula Status: Active SI Network Signal La Signal: | ar cetor M: SiM1 Type: evel: | orkang | | | Settin | at |
| evice Sta WAN Mode: WAN IP: Netmask: Gateway: DNS-1: DNS-2: | atus DHCP 192,168,11.52 255,255,255,0 192,168,11.1 119,29,29,29 8,8,8,8 | Settions | Ethernet Port 1 Mode: WAN Status: Connect Ethernet Port 2 Mode: LAN Status: Disconre | Stituus | Wireles Status: IP: Netmask: Gateway: SSID: MAC: | SS Connecting | Celluli Status: Active SI Network Signal La Signal: Connect Time: | ar octors IM: SIM1 Type: ion 00.00 | orkang t:00 | | | Settin | at |
| wAN Mode: WAN IP: Netmask: Gateway: DNS-1: DNS-2: | Atus DHCP 192,168,1152 255,255,255,0 192,168,11,1 119,29,29,29 8,8,8,8 | Settions | Ethernet Port 1 Mode: WAN Status: Connecte Ethernet Port 2 Mode: LAN Status: Disconne | Stituus | Wireles Status: IP: Netmask: SSID: MAC: Signal: | SS Connecting | Celluli Status: Active SI Network Signal La Signal: Connecti Time: ICCID: | ar netwo M: SiM1 Type: evel: ion 00:00 | orkang t:00 | | | Settin | at |
| WAN Mode: WAN IP: Netmask: Gateway: DNS-1: DNS-2: LAN | atus DHCP 192.168.11.52 255.255.0 192.168.11.1 119.29.29.29 8.8.8 | Settions | Ethernet Port 1 Mode: WAN Status: Connecte Ethernet Port 2 Mode: Mode: LAN Status: Disconne Location Location | Stituus d | Wireless Status: IP: Netmask: Gateway: SSID: MAC: Signal: Receiving Rate: | SS Connecting | Cellula Status: Active Si Network Signal Li Signal: Connect Connect Time: ICCID: IP Addre | ar networ M: SIM1 Type: rvel: ion 00.00 ss: | wing | | | Settin | 21 |

5. Basic information and network connection status of the equipment can be seen in the overview interface.

4.2. Network configuration

1. WiFi connection, need to open the web page "network-> wireless client " interface, click the search button,search WiFi AP hot spot, wait for the search to complete, click the input box, there will be a drop-down box pop-up, you can directly select the AP side, you can also enter the hot spot in the input box for fuzzy search to filter.After selecting AP, configure encryption method and click Apply. (It takes effect immediately after clicking the "Apply" button, check connection status in over view interface)

| WukongEdge | Overview 💽 Netv | vork 💽 Edge Computing | System Management | a 😡 文中和第 (3 |
|-----------------|---------------------------|-----------------------|-------------------|-------------|
| Network Switchi | > Wireless Client | | | |
| Cellular | Wireless Client | | | |
| Wireless Client | * Enable Wireless Client: | Enable | * | |
| Ethernet Port | niss : | | | |
| WAN | 500 | | X Search Xe | |
| LAN | * Encryption | USR-LG220-L-F63C | | |
| Routing | | kjb-guest | | |
| Kouting | | 产品部 | | |
| VPN | | SDW-2 | | |
| Diagnostics | | 产品级2 | | |
| Firewall | | 1012) | | |
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2. Other web applications can be used with reference to WukongEdge Manual (Link: [Manual] WukongEdgeManual.pdf).

4.3. Data collection

This chapter mainly introduces the data acquisition part of the edge calculation function, which relies on the point configuration and uses Modbus Slave to test the data acquisition.

Before the function test, install Modbus Slave software on the computer; the function test steps are as follows:

1.Hardware connection: connect the computer and the device LAN port through the network cable (refer to Section 3.2);

2. Power on the equipment, wait for the equipment to be fully started (display configuration interface), and enter WEB interface (refer toSection4.1);

| WukongEdge | 19 8 8 | ()] 网络 | ② 边缘计算 | ② 系统管理 | | | | | | | | Si English 😡 |
|------------|---------------|---------|--------|--------|-------|----------------|--------|------|-------------------|-------|----------|--------------|
| 网络切换 | > LAN | | | | | | | | | | | |
| 蜂窝网络 | LAN | | | | | | | | | | | |
| 无线客户端 | 状态信息 | 已直接 | | | | | | | | | | |
| 网口管理 | IP: | 192.16 | i8.1.1 | | 子同挑码: | 255 255 255 0 | | MAC: | 04 AD:20 AE:0F:24 | 连接时间: | 23:20:33 | |
| WAN | 发送: | 5.3 ME | 3(736) | | 接收: | 170.9 KB(2364) | | | | | | |
| LAN | | | | | | | | | | | | |
| 路由 | ncier o | HCP服务列制 | k | | | | | | | | | |
| VPN | DHCP主 | 机列表 | | | | | | | | | | |
| 网络诊断 | | | 主机名 | | 1 | IPv4l也 | | | MAC地址 | | 剩余相關 | |
| 防火墙 | | | | | | 192.168.1.100 | | | 00.E0.4C.68.35.94 | | 23 59 45 | |
| | 静态地址 | 分配列表 | | | | | | | | | 運20 | 869: |
| | | | | 主机名 | | | IPv4地址 | | | MAC地址 | | 操作 |
| | | | | | | | 能力 | 政策 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

3. Find "Network-> LAN-> DHCP Service List" to view the IP address assigned by the device to the computer;

4. Find the "Edge Calculation-> Data Point" interface, click the "Add" button of the slave, configure the slave information in the pop-up window, where the acquisition protocol selects Modbus_TCP, and Fill in the IP address of the computer being queried.

| WukongEdge | | 92 M | NI 🔃 124851 | 10 81 | | | | | | | | | | | |
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| | | 10 | test! | 16位无符句 | | 4 0002 | 25 75 | 100 | 2000 | | | | | 2.0 | 9000 |

5. After the slave is added, select the slave and click the Add button in the Slave-Point List interface to add points. In the pop-up window, configure the point information. For the convenience of later configuration display, add 12 data at a time for this test. The specific operation is that the point name is "test", the register is "40001", the data type is "16-bit unsigned", and the number of points is "12". Other defaults will be generated in the point table after clicking OK.

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| | | | | | | | | | | | | | | |
| | 从机 | 一点位列表 | | | | | | | | | | ister / s | 2.55.5 | 830 8 58 18-5768 |
| | 从机 | 一点位列表 ^{座号} | 点位名称 | 教育类型 | 小数位数 | 總址 | 10580 | 优先级 | 提出的问(ms) | 数据 | 采集公式 | (古生人) 控制公式 | 2.430 4056 | 520 259 26.57425 12/1 |
| | 从机 - | 一点位列表 ^{序号} | 点位名称 lest11 | 教國美型 16位无符号 | 小銀位数 | 101± | 波布状态 波河 | 优先级 0级 | 김명(昭何(ms) 2000 | 政調 | 采集公式 | 回应入3 控制公式 | асан | 230 23% 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 28.6776 29.6776 29.6776 29.6776 20.67776 20.6776 20.6776 20.6776 20.6776 20.6776 20.6776 20.6776 20.67 |
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6. At this point, the slave and point configuration is completed, and the device is restarted according to the web page prompt;

7. Open Modbus Slave software on the computer, find "Slave Definition" in "Setup" and open it, Slave ID is configured as 1, Funtionis configured as " 03 Holding Register(4x)",Address is configured as 0, Quantity is configured as 12, and others remain default;

| Modbus Slave - [Mbslave1 | |
|--------------------------|--|
| Graine Edit Connection | Setup Display View Window Help – P |
| D = 1: F = 03 | |
| lo connection | |
| Name | |
| 0 | Slave Definition X |
| 2 | Slave ID: 1 OK |
| 3 | Function: 03 Holding Register (4x) Cancel |
| 4 | Address mode |
| 5 | O Dec O Hex |
| 7 | |
| 2 | Address: 0 PLC address = 40001 |
| 9 | Quantity: 12 |
| | View Rows 10 20 50 100 Fit to Quantity Hide Name Columns PLC Addresses (Base 1) Address in Cell |
| | Error Simulation Skip response Insert CRC/LRC error 0 [ms] Response Return exception 06, Busy |
| or Help, press F1. | Port 30: 9600-8-N-1 |

8. Find "Connection" in the menu bar, and configure it as shown in the following figure (IP address and port are consistent with device slave configuration). Click OK to complete the configuration, and the word "No connection" disappears, indicating that the device has been successfully connected to Modbus Slave;

| Na | Connection Setup |
|----|----------------------------------|
| 0 | |
| 1 | Connection OK |
| 2 | Modbus TCP/IP ~ |
| 3 | Cancel |
| 4 | Serial Settings |
| 5 | USB-SERIAL CH340 (COM30) |
| 6 | 9600 Baud Mode |
| 7 | ORTU ASCII |
| 8 | 8 Data bits Flow Control |
| 9 | None Parity V DSR CTS RTS Toggle |
| | 10 [ms] RTS disable delay |
| | |
| | TCP/IP Server |
| | IP Address Port |
| | 192.168.1.100 ~ 102 |
| | Any Address O IPv4 |
| | Ignore Unit ID IPv6 |

9. In the main boundary of Modbus Slave tool, select the first point, double-click to open the data configuration pop-up, check "Auto increment", click OK, the first data in Modbus Salve will automatically change, other data will do the same operation, until all the 12 points are configured for automatic change.

| 195 168 192 165 189 165 184 181 170 Enter signed int 16 Value: 192 OK Cancel | Name | 00000 | Name | 00010 | |
|--|------|---------------------|---------|-------|--|
| 192 165 189 186 184 181 170 Enter signed int 16 × Value: 192 ОК Сапсеl |) | 195 | . turne | 168 | |
| 189 186 184 181 170 Enter signed int 16 Value: 192 OK Auto increment Cancel | | 192 | | 165 | |
| 186 184 181 170 Enter signed int 16 Value: 192 OK Auto increment Cancel | 2 | 189 | | | |
| 184 181 170 Enter signed int 16 Value: 192 OK Auto increment Cancel | 8 | 186 | | | |
| 181 170 Enter signed int 16 Value: 192 OK Auto increment | - | 184 | | | |
| 120 Enter signed int 16 Value: 192 OK Cancel | | 181 | | | |
| Value: 192 OK Cancel | | 170 | | | |
| Value: 0K Cancel | | Inter signed int 16 | | 1 | |
| Cancel | | Value: 192 | | ОК | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

10. Return to the WEB interface of the device. In the "Edge Calculation-> Data Points" interface, you will see that the slave is online, and the corresponding points have all acquired data. The data acquisition test is completed.

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| | 数据点 | 砬 | | | | | | | | | | | | |
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| t | 版本号: | 1742116607 | | | | | | | | | | | | |
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| | - | 康号 | 点位名称 | 数据关型 | 小股位股 | HE LE | 被写状态 | 优先级 | AIR/03/67(ms) | RH | 采集公式 | ma入5 短期公式 | 1013. 5055 | Reading Sector |
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| | | 康昭 1 2 3 | 法位名称 test11 test10 test9 | 数据类型 16位无符号 16位无符号 16位无符号 | 0 0 0 0 | HE12 4 0012 4 0011 4 0010 | 波行状态 玄可 武可 文可 文可 | 优先级 0级 0级 0级 | AllBiBiH(ms) 2000 2000 2000 | 数据 1968 1971 1974 | 采集公式 | | 46733. 本位描述 | Rosie Re Re Bis Re Bis Re Bis |
| | | 邮号 1 2 3 4 | 赤松高輝 test11 test9 test8 | 政務実型 16位无符号 16位无符号 16位无符号 16位无符号 | 9-886288 0 0 0 0 | Metal: 4 0012 4 0011 4 0010 4 0009 | 建印状态 武可 武可 文可 武可 武可 | 就先缀 0级 0级 0级 0级 | Allatastri(mn) 2000 2000 2000 2000 | 政策 1968 1971 1974 1976 | 采集公式 | нел.) Никах | 4018) | Realized Set Gali Missi Gali Missi Gali Missi Gali Missi Hissi Ali Missi |
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4.4. Data reporting

After data collection is completed, the data can be transmitted to the server for data processing and display through the data reporting function. This chapter will describe the reporting operation in combination with the data obtained in the "Data Collection" chapter. Make sure you download Network Debugging Assistant on your PC before you start.

1. Continue to operate on the device that has completed the data acquisition operation, open the builtin web page, and find "Edge Computing-> Edge Gateway-> Data Reporting";

2. Click the "Create" button to create a group, fill in the group name, and select the uplink channel. In this example, "Link 1" is selected for reporting;

3. Configure the reporting rules, for example, select "Periodic Reporting", and configure the reporting cycle time to be 5s after it is enabled;

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4. Configure the reporting template, which should meet the requirements of Json format;

5. After creating a reporting group, select the group, click the Add button in the Point List, and pull the points that need to be reported in the group;

6. Select the slave in the pop-up window, then select the point, click OK;

7. Note that after adding points, it is necessary to ensure that the point name of value in the submission template is consistent with the name of the pulled point;

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8. After completing the grouping report, you need to configure the communication link and find the "Edge Computing-> Edge Gateway-> Data Report" interface;

9. Open "Link 1", configure the communication protocol as TCP, fill in the computer IP address, set the remote port as 8234, default other parameters, click Apply and restart the device;

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| 组态管理 | 6882 | 基础设置 | | |
| 协议结孩 边缘现天 ~ 年且整理 通信道路 政策上段 政功控制 | Υ.Υ.Υ | 308.8%: 308.84%: 1.048.048.04 1.048.04 1.048.048.04 1.048.048.04 1.048.048.048.04 1.048.048.048.048.048.048.048.048.048.048 | TCP Client ✓ 192.168.1300 ✓ 0 A018 ✓ M08 ✓ | |
| V12.01 | | | | |

10. Open the network debugging assistant on the computer side, set it to TCP Server, set the local address to the computer address, set the port number to 8234, and open the monitoring;

11. After the device is restarted, it will be connected to the computer and report the data according to the cycle of 5s;

| · / (| 网络调试助手 | ¥□ - □ × |
|--|--|---|
| 网络设置 | 数据日志 用户支持 | NetAssist V5.0.2 @ Q |
| (1) 协议类型 TCP Server ▼ (2) 本地主机地址 (3) 本地主机端口 (3) 本地主机端口 (3) 本地主机端口 (3) 本地主机端口 (5234 (5234 (5234 (7) 按订 (7) 行 (7) 行 (7) 行 (7) 行<!--</td--><td>[2025-03-18 09:26:53.623]# HECV ASCII FROM 192.168.1.1 :482522 [*test0":8701, "test1":0699, "test3":0692, "test4":0600, "test5":0607, "test6":060 ":0677, "test10":0674, "test11":0671] [2025-03-18 09:26:58:538]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0710, "test1":0707, "test3":0701, "test4":0609, "test5":0606, "test6":0609 ":0606, "test10":0603, "test1":0600] [2025-03-18 09:27:03.652]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0719, "test1:0716, "test3":0710, "test4":0708, "test5":0705, "test6":077 ":0606, "test10":0692, "test11":0609] [2025-03-18 09:27:03.561]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0728, "test11":0755, "test3":0719, "test4":0717, "test5":0714, "test6":071 ":0704, "test10":0701, "test11":0608]</td><td>15, "test?":8679, "test9 M. "test?":8688, "test9 13, "test?":8697, "test9 12, "test?":8706, "test9</td> | [2025-03-18 09:26:53.623]# HECV ASCII FROM 192.168.1.1 :482522 [*test0":8701, "test1":0699, "test3":0692, "test4":0600, "test5":0607, "test6":060 ":0677, "test10":0674, "test11":0671] [2025-03-18 09:26:58:538]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0710, "test1":0707, "test3":0701, "test4":0609, "test5":0606, "test6":0609 ":0606, "test10":0603, "test1":0600] [2025-03-18 09:27:03.652]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0719, "test1:0716, "test3":0710, "test4":0708, "test5":0705, "test6":077 ":0606, "test10":0692, "test11":0609] [2025-03-18 09:27:03.561]# HECV ASCII FROM 192.168.1.1 :482522 ["test0":0728, "test11":0755, "test3":0719, "test4":0717, "test5":0714, "test6":071 ":0704, "test10":0701, "test11":0608] | 15, "test?":8679, "test9 M. "test?":8688, "test9 13, "test?":8697, "test9 12, "test?":8706, "test9 |
| 自动滚屏 清除接收 | < | 「清除 1 清除 |
| 自动应签 累面主题 批量发送 數据导出 ASCII/法 点题打发 | http://www.cmsoft.cn | 发送 |
| ▲ 就绪! | 10805/0 RX:1704093 | TX:0 复位计数 |

12. Verification of data reporting function is completed.

4.5. Configuration application

The configuration function of equipment mainly realizes the local visualization of equipment acquisition data, which is convenient for on-site data monitoring and management. Equipment configuration application also needs to be combined with data acquisition. After completing data acquisition test, you can continue to experience configuration application.

4.5.1. Configuration design

- 1. Open the "Edge Calculation-> Configuration Management" interface in the web page, find "Create", click Create New Configuration;
- 2. Select the new configuration, find the "Configuration Design" button, click to enter the configuration editing interface;

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| Protocol Edge Gateway ∨ PLC | | | | | | |

3. Configuration design is carried out in the configuration design interface. Design is carried out through the component library and gallery on the left side of the design interface. You can also copy the pictures for design. At the same time, you can export and import the configuration completed by design.



4. After the configuration is completed, bind the points. Select the variable value in the configuration, and the data source will be displayed on the right side. Select the slave and point to bind (slave and data are added in the edge acquisition point table, refer to the data acquisition chapter);



5. After completing the binding of all variable values, save the configuration, click the "Save" button, wait for "All changes have been saved" to be displayed at the top of the page, and then close the configuration design interface;



- Return to the built-in web page configuration management interface, refresh the web page, select the new configuration, the edited configuration screen will be displayed, if the data has been successfully collected, the actual data display will be seen;
- 7. The configuration design is completed to this test. If you want to configure full-screen view on the computer, you can click the interface "Configure full-screen" to view it. If you need to configure full-screen display directly on the equipment screen, refer to the next chapter.

4.5.2. Configure full screen startup

The full-screen configuration startup function refers to the function that, after the device is powered on, the full-screen display of the configuration is directly carried out. As shown in the figure above, by default, the first configuration in the configuration group is displayed. The full-screen configuration display function can be turned on and off through the configuration management interface.



4.6. Else

SH800 has built-in WukongEdge application architecture, including edge computing, network management, built-in configuration and PLC functions. For specific function applications, please refer to WukongEdge manual.





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