DCI-FW1600 Box service conversion system

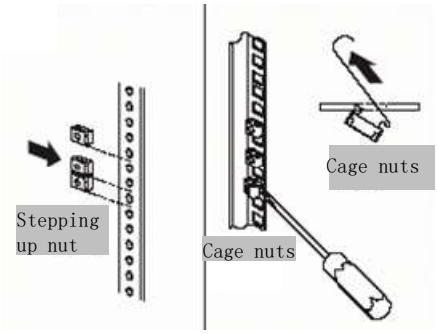
Data center interconnection equipment

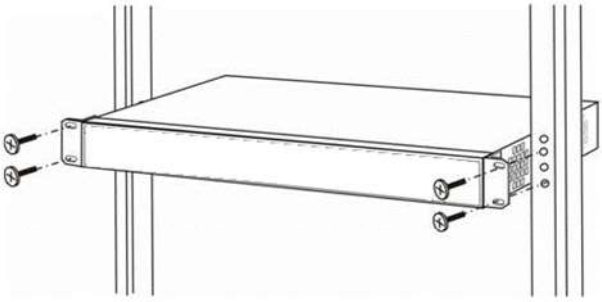
Product Description

Thank you for choosing our product!

Product safety precautions

Read the following carefully before installing and using the product. We are not liable for any loss resulting from the breach of safety precautions.





(1) Please connect the hanging ear with the equipment frame and ensure that the screws are tightened to prevent the equipment from falling.

(2) Install the frame with hanging ears in the cabinet and ensure that the screws are tightened to prevent the equipment from falling.

(3) Please correctly access the external power supply according to the power board card interface type.

(4) Check whether the fixing screws of each plate are tightened to avoid abnormal equipment work due to loose plate card.

(5) The heat dissipation outlet of the equipment is located on both sides of the frame. Please ensure normal air circulation on both sides to ensure good heat dissipation of the equipment.

(6) Keep the machine room clean and dust-free and constant temperature.

(7) Before putting the equipment on to the power, it must be confirmed that the power switch is closed, and the parts and cables are not damaged, and ensure that the power supply voltage of the equipment is in the normal operation of the equipment

Special attention:

1、Do not allow any objects into the product, not to allow damage to the product, and avoid use in the following environments.

2、 When the product is working, do not look directly at the end surface of the optical fiber to avoid eye damage caused by invisible laser to high power.

3、Do not allow any objects into the product, not to allow damage to the product, and avoid use in the following environments:

- Direct sunlight or high-temperature baking environment;
- Environment where the temperature changes dramatically;
- Dusty or humid environment;
- Environment of strong electric or magnetic fields;
- The environment in which corrosive gases, flammable and explosive gases, or chemical gases diffuse.
- The machine room has no lightning protection, dustproof, anti-electromagnetic interference and anti-static environment

4、Please turn off the power supply immediately and contact us for negotiation and handling in the following circumstances:

- The product has been soaked by rain or liquid infiltration;
- Product falling from high places or damaged shell;
- The product has a burning smell;
- Products have a spark phenomenon;
- Product issued abnormal sound;
- The product cannot work normally;

Please contact us if you have any questions. Do not remove the product without authorization, otherwise it will cause irreparable damage

Catalogue

DCI-FW1600 Box service conversion system

1、Equipment Description

Ⅰ、Front

图 2-1 Box Front

1.NMU Slot

2.Business card slot, 4 business card slots in total (supporting 400G and 200G business cards)

3.2 Box lug

Ⅱ、Back

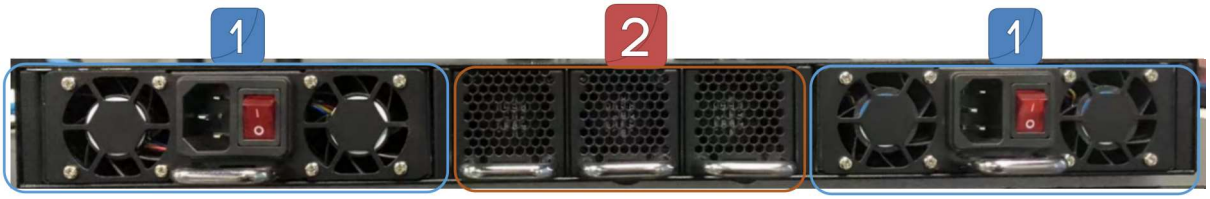


图 2-2 Box Back

1.Two hot plug power modules are supported

2.Three hot swappable high-speed fan modules are supported

2、Function board introduction

Ⅰ、NMU

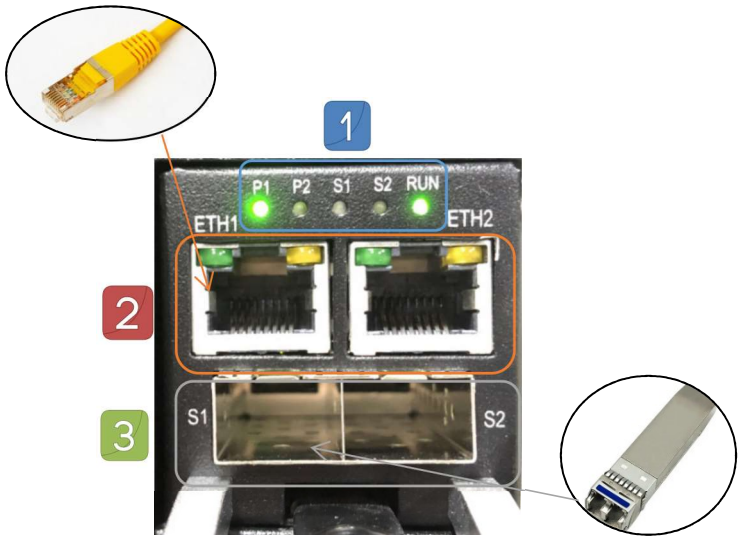


图 3-1 NMU Pront

(1)Light：P1、P2、S1、S2、RUN

(2)Ethernet interface：ETH1、ETH2

(3)Optical module interface：S1、S2

Name	Interface	Type
ETH	Network communication port	RJ-45
S1&S2	OSC inbound and outbound management interface	SFP

Name	Object	Describe
NMU	Light	P1 and P2 indicate the operation of the main and standby power supplies of the equipment, S1 and S2 indicate the interface status of the optical module, RUN indicates the operation status of the equipment, and the RUN light flashes once a second under normal conditions.
	Ethernet interface	Support Ethernet interface, use IP routing protocol and Web side to achieve network management function, and monitor equipment operation status.
	Optical module interface	It supports 1000Mbps SFP optical module, which is used for the monitoring of external OSC network management and other devices.

Ⅱ、400G Function card

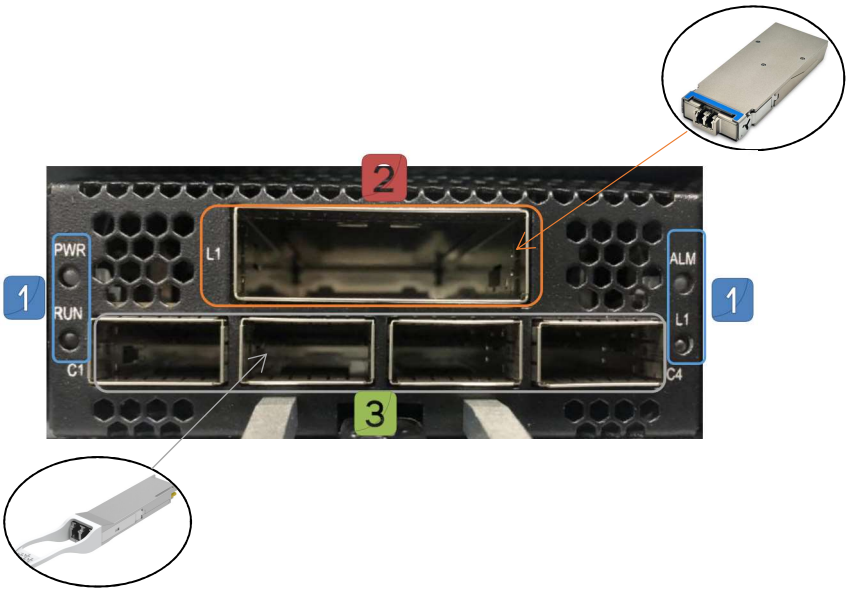


图 3-2 400G Function card

(1)Light：PWR、RUN、ALM、L1

(2)Optical module interface：L1

(3)Optical module interface：C1、C2、C3、C4

Name	Object	Describe
400G Function card	Light	PWR indicates the operation of card slot power supply; RUN indicates the running state of the equipment, which normally flashes once a second; ALM indicates signal or service alarm, which is red when it is on; L1 indicates the insertion status of the line side light module.
	Optical module interface	L1 port is the line side optical module interface, supporting CFP2 optical module
	Optical module interface	C1~C4 are the customer side optical module interfaces, supporting QSFP28 optical modules

Ⅲ、200G Function card

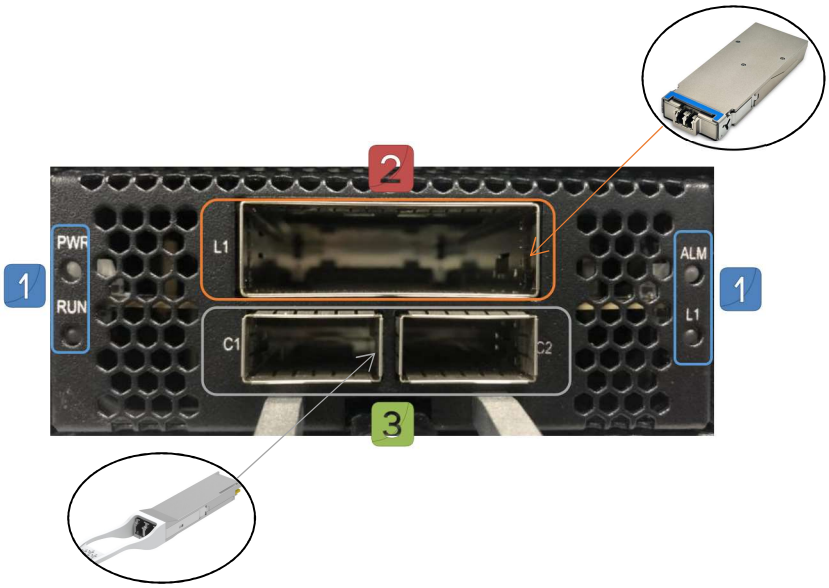


图 3-3 200G Function card

（1）Light：PWR、RUN、ALM、L1

（2）Optical module interface：L1

（3）Optical module interface：C1、C2

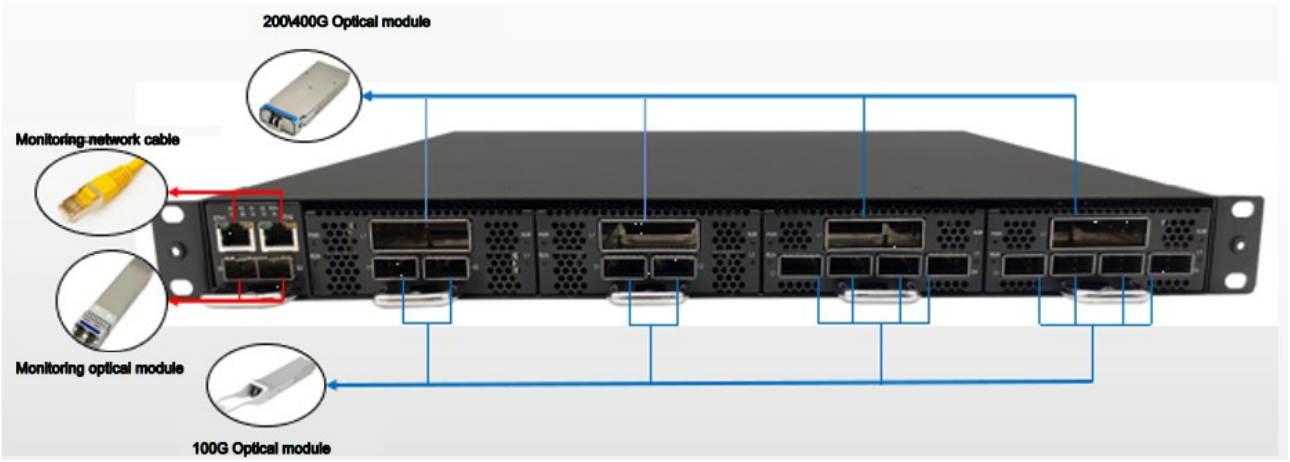
Name	Object	Describe
200G Function card	Light	PWR indicates the operation of card slot power supply; RUN indicates the running state of the equipment, which normally flashes once a second; ALM indicates signal or service alarm, which is red when it is on; L1 indicates the insertion status of the line side light module.
	Optical module interface	L1 port is the line side optical module interface, supporting CFP2 optical module
	Optical module interface	C1~C2 are the customer side optical module interfaces, supporting QSFP28 optical modules

Ⅳ、Power supply unit

图 3-5 Power Unit

Name	Object	Describe
Power	FAN	When the power supply is turned on, the fan is used for cooling in the chassis.
	AC interface	AC power cord can be inserted to supply power to the equipment.
	Switch	When the switch is turned on, it is red and normally on. When the switch is turned off, it is off.

3、Hardware instructions



(1) The master control card can support the equipment network cable access and the monitoring optical module access.

(2) The L interface of the rate board can support the CFP2 optical module to make the incoming of the line side and the outgoing of the service.

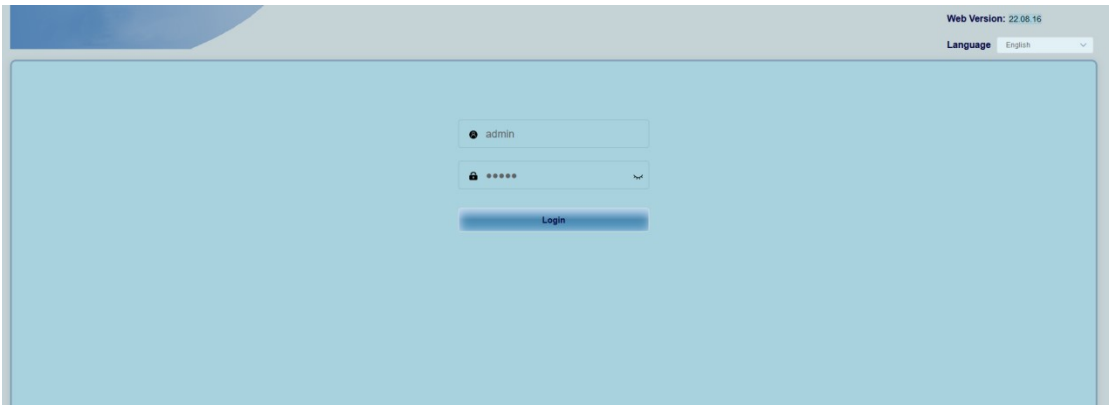
(3) The C interface of the rate board can support the incoming and outgoing services of the 100G QSFP28 optical module.

(4) The power interface supports AC power cord.

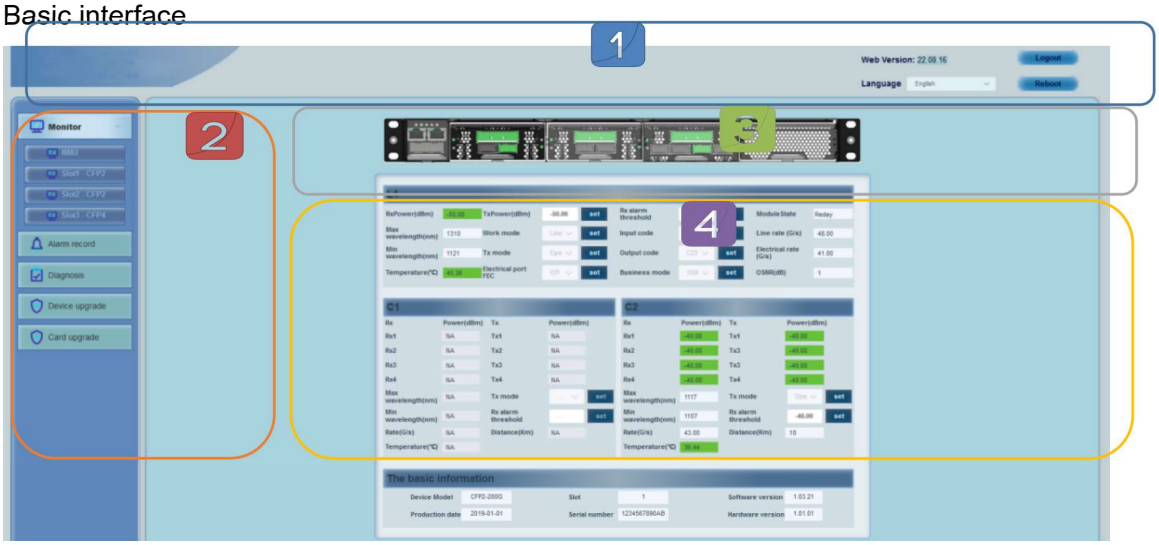
4、Software instructions

Ⅰ、Software Login

Connect the Ethernet interface on the main control board card with a network cable. Open the browser on the PC side to log in to the Web network management system. The default IP address is 192.168.1.126. The IP address of the network card on the PC side needs to be set to the same network segment. Default user name: admin, password: admin.



Ⅱ、Basic interface



After successful login, enter the main interface of the software, as shown below：

Function Description

Name	Object	Description
Function	Essential information	Web page version number display; Language selection, switching between Chinese and English; Log out and restart the device.
	Main Tab	In the main function display area of the device, click to switch to each main function option page. When the device is inserted into the board and read, the corresponding board name will be displayed under "Device Monitoring".
	Equipment operation status	The running state of the device is displayed on the Web, which intuitively shows the current running state of the device. It can display the operation of the main control card and its interface, the insertion of each board, the insertion of each optical module under the board, and the status of the device alarm light. Click each area displayed in the picture to directly enter the configuration page of the corresponding board. The card slot being selected for operation will be slightly brighter than other card slots.
	Parameter information and function configuration	The main area for equipment information display and parameter change.

Ⅲ、Information view and parameter set

(1) Information view

The content in the display area of the Web page is the current running state of the device or the set parameters. The green indicates the normal state, and the red indicates

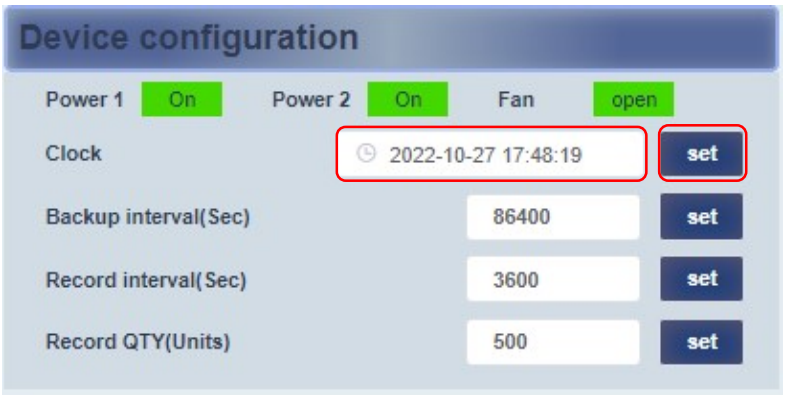
the abnormal or alarm state. When the network is normal, the device status will change in real time. In case of abnormal display, please refresh the page or change the browser.

If the page is not completely displayed, slide down on the right side of the browser to see more information. You can also use ctrl+mouse wheel to change the browser display scale for easy reading.

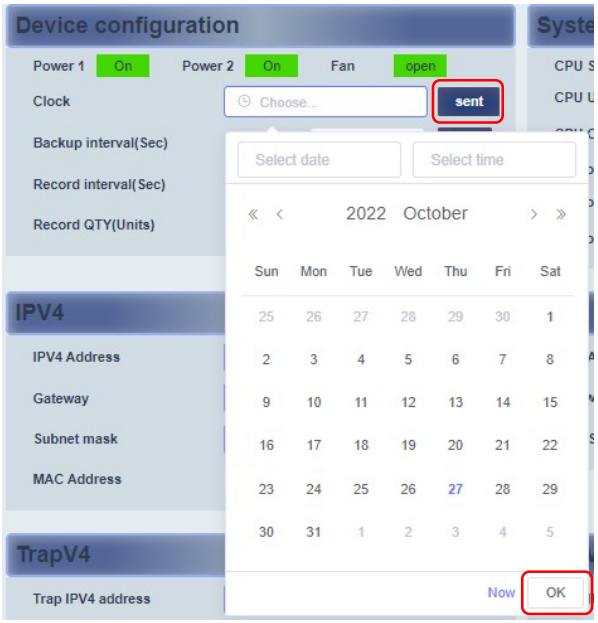
(2)parameter set

The setting method is as follows (take setting the clock as an example)：

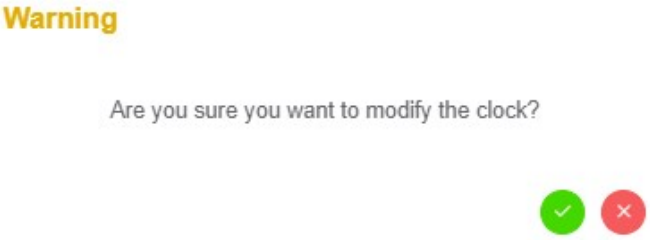
In general, the information is gray and cannot be changed. Click "Set" to change the information or value in the box,



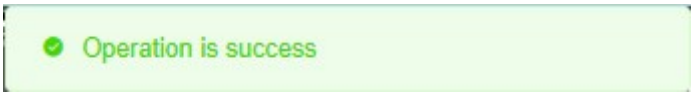
Click the clock display area to enter the date and time selection page,



Select the date and time to be set, or click "Now" to directly synchronize the local PC time to the device, click "OK" after setting, and then click "Send" to send the set information to the device,



Click confirm sending information，click cancel sending，

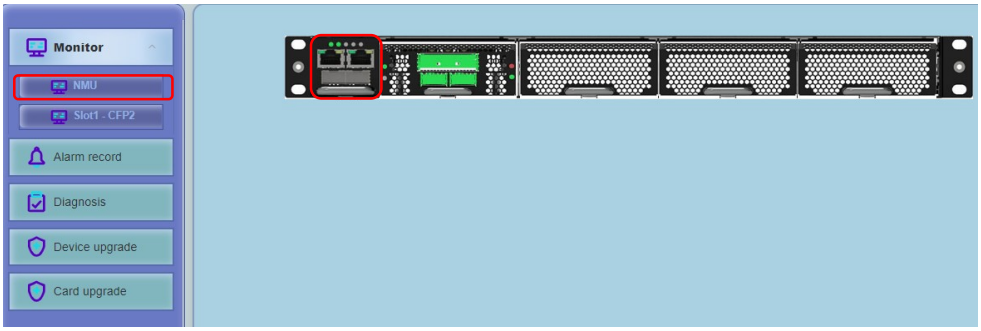


After confirming the sending and successfully modifying the information, the word "Operation succeeded" will be displayed in the middle of the Web.

The above is the basic process of setting parameters.

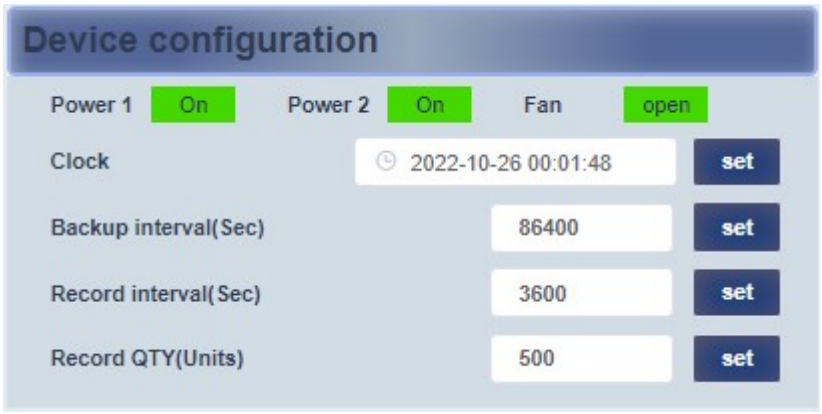
Ⅳ、NMU parameter set

Click NMU in the main tab under the Web page, or click the master control card in the device status diagram to enter the master control card setting page.



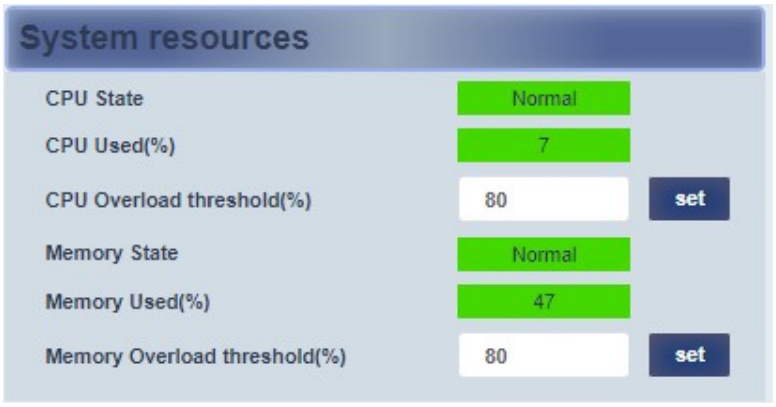
(1)Device configuration

Under the device configuration tab, the operation status of power supply 1 and power supply 2 is displayed, which is green under normal conditions and red under abnormal conditions; Display the status of the fan unit, which is normally green; The clock can set the specific time of equipment operation, mainly used to record the accurate time of alarm occurrence; Backup interval sets the time set by the backup system; Record interval Set the interval of system operation and alarm information; Number of records Set the number of running and alarm messages.



(2)system resource

Under the System Resources tab, the CPU status displays whether the CPU is running normally; CPU used shows the current percentage of CPU used; The CPU overload threshold can set the percentage of CPU used before the system sends an alarm; Memory status indicates whether the memory is normal; Memory Used Displays the percentage of memory currently used; The memory overload threshold can be used to set the percentage of memory used before the system sends an alarm.



(3)IPV4 and IPV6

Under the IPV4 tab, you can modify the IPV4 address, gateway address, and subnet mask of the device to log in to the network management system of the device. If the change is successful, you must log in to the Web network management system with the new IP address immediately, and the MAC address is displayed; Under the IPV6 tab, you can enable/disable the IPV6 function, and modify the IPV6 address and the IPV6 gateway address of the device.

(4)TrapV4 and TrapV6

Under the TrapV4 tab, you can set two TrapV4 server addresses and Trap community name; Under the IPV6 tab, you can set the IPV6 server address and community. Set Trap to monitor the alarm information of the device on the server.

(5)Essential information

Under the Basic Information tab, the model of the board, the card slot number in use, the factory date and serial number, and the software and hardware version number are displayed. The card slot number 0 is the master card slot number, and 1~4 is the business card slot number.