

XtendLan

XL-IPM816

PDU remote power control



User Manual

Product function:

XL-IPM816 is a kind of PDU product which can provide a steady power supply better for the server. XL-IPM816 can provide relevant information for users and makes corresponding measures of warning or overload power by monitoring the electricity and environment status. The user can get the equipment's current status and start or shut off each output port by accessing XL-IPM816 through the network port, so as to realize the function of the remote server restart.

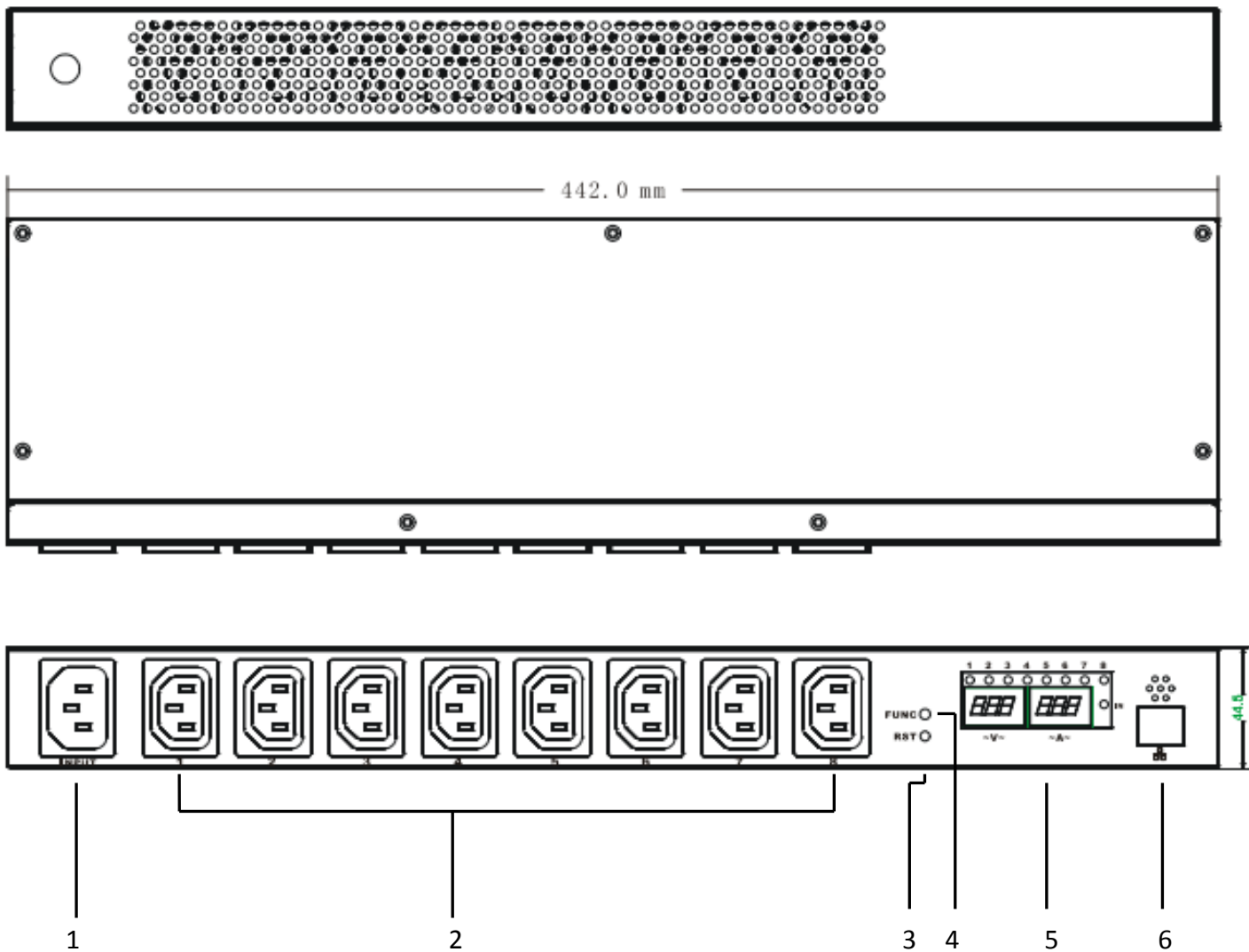
Product features:

- 8 power output, the total current 16A
- current, voltage (total input) measurement
- built-in temperature and humidity sensor to monitor the using environment
- embedded technology, support Java, web browsing
- can set up two level values of warning and overload
- set each circuit delay time to prevent the impact of power surge to the power supply system
- LED indicates power supply condition of each switch
LED digital display shows the current value of voltage and current
- provides local query buttons of PDU equipment
- built-in lightning protection circuit and resisting voltage surge circuit can protect the server effectively

Product specifications:

- Voltage input: 110-240V 50/60Hz
- Voltage output: 110-240V 50/60Hz
- Input socket type: 1x IEC320 C20
- Output socket type: 8x IEC320 C13
- Protection: 16A overload protection, lightning protection
- Voltage measurement range: 90-264VAC, resolution 1 V
- Current working range: 0-20A, resolution 0.1A
- Temperature measurement range: 20% -90% RH
- Humidity measurement range: 0 °C-50 °C

Product Diagram



Instructions

- 1、 Power Input Socket IEC320 C20
- 2、 Output Socket IEC C13
- 3、 Reset Key
- 4、 Function Key, Check the machine IP address
- 5、 Meter Panel, Display voltage, current, temperature, humidity, etc
- 6、 Network Port, Connect LAN or WAN

Using Directions:

1. Equipment connection Connect 8x IEC 60320(C13) output plug with one side of the output line, connect 8 output line respectively with the power input end of the server which needs power supply. Connect one side of input line plug with the XL-IPM816 IEC320 C20 input socket, and the other side with the AC power supply socket. After that, XL-IPM816 will start from the first port to the 8th port with interval of 1 second, and supply power for the server. Display panel will show the current supply voltage and total output current of 8 circuits, 8 LED indicator light indicates the state of current 8 output port.

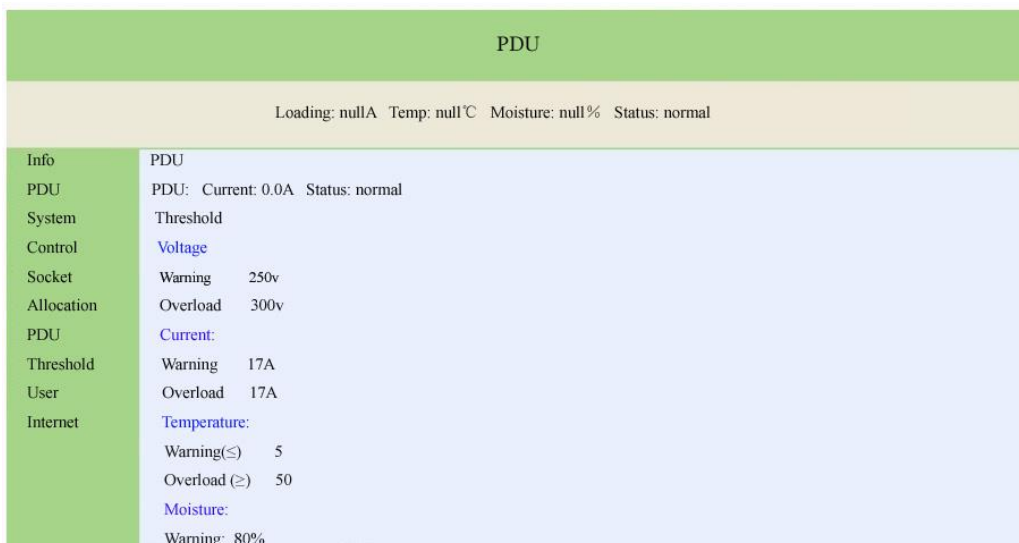
2. Check the IP address The display will show current IP address after pressing the FUNC button when the display shows the voltage and current. The default IP address is 192.168.0.10

3. Check the temperature and humidity The display will show temperature and humidity of XL-IPM816 built-in temperature and humidity sensor after pressing the FUNC button in the state of screen shows the IP address. The left screen shows temperature and the right screen shows humidity.

4. Reset of the equipment Press the XL-IPM816 RST button on the front panel, it will reset .

5. Network access and control With XL-IPM816 power-on, users can achieve the function that PC host access and control XL-IPM816 in the same LAN by connecting RJ45 socket with network

①. **Login control interface** Open the IE browser on any PC in LAN host, the address bar: [Http://192.168.0.10](http://192.168.0.10) , users can login XL-IPM816 control interface after inputting user name (admin), password (admin) in the jumped login screen as shown in the picture below.



The screenshot displays the PDU control interface. At the top, a green header contains the text "PDU". Below this, a status bar shows "Loading: nullA Temp: null°C Moisture: null% Status: normal". The main content area is divided into a left sidebar with menu items and a right pane with data. The sidebar items are: Info, PDU, System, Control, Socket, Allocation, PDU, Threshold, User, and Internet. The right pane shows the following information:

Info	PDU
PDU	PDU: Current: 0.0A Status: normal
System	Threshold
Control	Voltage
Socket	Warning 250v
Allocation	Overload 300v
PDU	Current:
Threshold	Warning 17A
User	Overload 17A
Internet	Temperature:
	Warning(≤) 5
	Overload(≥) 50
	Moisture:
	Warning: 80%

②. **PDU system information** Click the "System" on the left side of the information bar, to indicate the PDU system information as the following picture.

Item No.	LANBE IP PDU
Firmware Version	1.0.0
MAC Address	00:04:A3:00:00:00
System Name	IP PDU
Admin	admin
System Address	office

③. **The power port control** Click "Socket" in the control bar which is on the left side of the interface , display as shown below.

Soket Name	Status	<input type="checkbox"/>
outlet 1	diconnect	<input type="checkbox"/>
outlet2	diconnect	<input type="checkbox"/>
outlet3	diconnect	<input type="checkbox"/>
outlet4	diconnect	<input type="checkbox"/>
outlet5	diconnect	<input type="checkbox"/>
outlet6	diconnect	<input type="checkbox"/>
outlet7	diconnect	<input type="checkbox"/>
outlet8	diconnect	<input type="checkbox"/>

Operate

Users can start or shut off XL-IPM816 8-way output in this interface.

Start all: click drop-down box behind the action box, choose "Start", click the "Apply" button

Shut off all : click drop-down box behind the action box, choose "Shut off", click the "Apply" button

Custom start and shut off : illustrate the method of custom start and shut off, if the user needs to start 1, 2, 3, 4 circuit, but shut off 5, 6, 7, 8, **the first method**: click the drop-down box behind the action box, choose "Start". And then, click the small box behind outlet1, outlet2, outlet3, outlet4 respectively, click "Apply" button. **The second method**: click the drop-down box behind the action box, choose "Shut off ". And then, click the small box behind outlet5, outlet6, outlet7, outlet8 respectively, click "Apply" button.

④. **Start and shut off time-delay** Click “PDU” in the configuration box which is on the left side of the interface, display interface as shown below:

Socket Name	Starting-up Delay(sec)	Disconnection Delay(sec)
outlet1	1	1
outlet2	2	2
outlet3	3	3
outlet4	4	4
outlet5	5	5
outlet6	6	6
outlet7	7	7
outlet8	8	8

Users can start or shut off time-delay of XL-IPM816 8-way output. The picture above is the factory Settings, it means that the 8 circuit of XL-IPM816 will output from the 1st to the 8th port in sequence in the interval of one second after connecting with power. When open the 8 output through the network, the starting delay time will display on the 8 output port. It is important to note that when the user disconnect the input power of XL-IPM816, shutting off the time-delay function is invalid. Shutting off the time-delay function is only applicable to control 8-way output through a network.

⑤. **Threshold value setting** Click “Threshold value” in the configuration box which is on the left side of the interface, display interface as shown below.

Name	Shreshold				
Current	Warning	<input type="text" value="17.0"/>	A	Overload	<input type="text" value="17.0"/>
Voltage	Warning	<input type="text" value="250"/>	V	Overload	<input type="text" value="300"/>
Temperature	Less than	<input type="text" value="5"/>	°C	more than	<input type="text" value="50"/>
Moisture	Warning	<input type="text" value="80"/>	%		

The picture above is the factory Settings, the meaning is:

- Current warning value 17A: When the total current exceeds 17A, XL-IPM816 buzzer sends out "beep, beep" sound alarm
- Current overload value 17A: When the total current exceeds 17 a, XL-IPM816 will cut off the power supply of all output port
- Warning voltage 250V: When the input voltage exceeds 250V, XL-IPM816 buzzer sends out "beep, beep" sound alarm
- Current overload value 300V: When the input voltage exceeds 300V, XL-IPM816 cut off the power supply of all output port
- Temperature is under 5 °C, or exceed 50 °C: When XL-IPM816 built-in temperature and humidity sensor sensing the environment temperature is under 5 °C or exceed 50 °C, XL-IPM816 buzzer sends out "beep, beep" sound alarm
- Humidity warning value 80%: When XL-IPM816 built-in temperature and humidity sensor sensing environment humidity is more than 80%, XL-IPM816 buzzer sends out "beep, beep" sound alarm

⑥. **The user name and password setting** Click “user” in the configuration box which is on the left side of the interface, display interface as shown below.

Old	
User Name	<input type="text"/>
Password	<input type="text"/>
New	
User Name	<input type="text"/>
Password	<input type="text"/>
Confirm password	<input type="text"/>
	<input type="button" value="Apply"/>

The login user name and password of XL-IPM816 can be modified in this interface. After filling in the original and new user name, password and password confirmation respectively, click apply button, the new user name and password will be used at the next time login XL-IPM816.

⑦. **IP address and DNS Setting.** Click “network” in the configuration box which is on the left side of the interface, display interface as shown below.

IP Address	
Host Name	<input type="text" value="LANBEPDUBOARD"/>
IP Address	<input type="text" value="192.168.0.74"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.1"/>
	<input type="checkbox"/> DHCP
DNS	
Primary DNS IP	<input type="text" value="180.168.255.118"/>
Secondary DNS IP	<input type="text" value="116.228.111.18"/>
	<input type="button" value="Apply"/>

Host name: The name showed in the LAN, users can set itself

IP address: The current LAN IP address of XL-IPM816

Subnet mask: The current LAN subnet mask of XL-IPM816

Gateway: The current gateway of XL-IPM816

Enable the DHCP: The superior router of the current LAN will distribute network parameters automatically for XL-IPM816, it will come into force after clicking the apply button

Primary DNS IP refer to the supervisor router setting of current LAN

Secondary DNS IP refer to the supervisor router setting of current LAN