IP Power 9823LT-RL
Ethernet-based Data Acquisition and Power Control Module

User Manual

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Firmware Version: V1.04
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IMPORTANT NOTICE

* The product was designed for indoor use, we carry no responsibility for possible damages caused by outdoor use, especially in the rain
* Please use the power adapter provided by the dealer, we carry no responsibility for the possible damage from using power adapters not provided by us.
* Please contact the dealer if IP Power 9823 is not working properly.

* Warning: Any changes made to this equipment without permission may cause damages to the device!.
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1. Introduction

1.1 Overview

Ethernet-based Data Acquisition and Power Control Module / Ethernet Peripheral Digit IO controller

The IP9823LT-RL is a cost effective solution for data acquisition, monitoring and control through network. The module provide IO for data acquisition, Relay for power control module and embedded webserver for a wide application. IP9823 Series also provides an excellent web server and complete network and industry standard protocols. It is easily integrated with existing system and play a high performance network control.

With latching type relay, with RS485 interface to be MODBUS Gateway – 9823 is a stable and powerful bridge of Modbus /TCP Server on network and the Modbus devices

Please refer the following picture for the overview of IP9823LT-RL
Modbus TCP Devices

Ethernet Network

Modbus RTU Devices

RS 485

Modbus RTU Devices

Remote power control (Latching relay)

Modbus RTU Devices

VAC 110  VAC 220  VAC 230  VDC 9-24V
1.2 Main Features

1.2.1 Hardware Features

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 Latch Type Relay 16A/250V (memory relay)</td>
</tr>
<tr>
<td>2</td>
<td>4 DI 4 General purpose digital input</td>
</tr>
<tr>
<td>3</td>
<td>Thermal /Humidity sensor</td>
</tr>
<tr>
<td>4</td>
<td>RS485 bus</td>
</tr>
<tr>
<td>5</td>
<td>PMOD connect (option)</td>
</tr>
<tr>
<td>6</td>
<td>Antenna (option)</td>
</tr>
<tr>
<td>7</td>
<td>Notification</td>
</tr>
<tr>
<td>8</td>
<td>Protection</td>
</tr>
</tbody>
</table>

1.2.2 Firmware feature

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Network</td>
</tr>
<tr>
<td>2</td>
<td>Security</td>
</tr>
<tr>
<td>3</td>
<td>Event, Alarm Notification</td>
</tr>
<tr>
<td>4</td>
<td>SDK and Industrious Protocol</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>5</td>
<td>IOT/ Device-to-Cloud Architecture</td>
</tr>
<tr>
<td>6</td>
<td>Windows AP</td>
</tr>
<tr>
<td>7</td>
<td>Mobile APP</td>
</tr>
<tr>
<td>8</td>
<td>Wireless LAN(Option)</td>
</tr>
</tbody>
</table>

### 1.2-1 Ethernet I/O control board, Modbus TCP/IP & BacNet TCP/IP

IP9823LT-RL is a module with embedded webserver and based on standard ethernet networking 10/100 Mbps Ethernet and support popular Modbus/TCP or and BacNet/TCP protocols over TCP/IP for data connection.

### 1.3 Product Specification

#### 1.3.1 Basic
- Network LAN 10/100Base-T(X)
- Power Input 12 ~ 30 VDC (Reversal Protection)
- Power Consumption: 2W @ 12 VDC (IP9823LT)
  - 2.16W @ 12 VDC (IP9823GP)
- Connectors 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- Watchdog Timer System (1.6 second) and Communication (programmable)
• Support Peer-to-Peer
• Support protocol:
  - Network: HTTP, UDP/TCP, DHCP, SMTP,
  - IoT/cloud: MQTT, UPNP
  - Industry: HTTP CGI, SNMP, Modbus/TCP, Bacnet/TCP,

  Modbus RTU

• PING Call Timer System
• Build in RTC timer for schedule
• Option: Wireless LAN extendable

1.3.2 Latching Relay Output
4 pcs Latching type relay and each relay can switch power.

- Max. 260 VAC @ 16 A . Max. 10A 30VDC
- Relay On Time 15 ms . Relay Off Time 8 ms
- Max. Switching 20 operations/minutes

1.3.3 Digital Input (DI)
Provide 6 DI with both dry contact and wet contact. **IN ch5 and ch6. of DI can be assigned to a tally counter or Tachometer.**

<table>
<thead>
<tr>
<th>DI</th>
<th>Logic Level 0</th>
<th>Logic Level 1</th>
<th>Notice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry</td>
<td>Below 500 Ohm resistance close to GND signal.</td>
<td>3 VDC</td>
<td></td>
</tr>
<tr>
<td>Wet</td>
<td>Open</td>
<td>5-50 VDC</td>
<td>Connector +/- protection</td>
</tr>
</tbody>
</table>

1.3.4 RS-485
1-ch RS-485 ASCII command and Modbus RTU to Ethernet-based (Modbus TCP)

Baud-rate and address is configured from web page
**1.3.6 Humidity Temperature Sensor**
The Humidity Temperature Sensor on the board. Sensing range

- Temperature: -20 ~ +60 °C / -4 ~ +136 °F
- Humidity: 20-95 % RH

**1.3.7 Protection:**
Isolation Voltage 3K VDC . &  Power Reversal Protection

**1.3.8 Environment:**
- Operation: Temperature -10 ~ 70°C (14 ~ 158°F).
  Humidity 20 ~ 95% RH (non-condensing).
- Storage: Temperature -20 ~ 80°C (-4 ~ 176°F).
  Humidity 0 ~ 95% RH (non-condensing)

**1.3.9 Dimensions:**
- 200 x 107x 20 mm ( L/W/ H )
- 203x 122x 50 mm ( L/W/ H ) ( w/ Din Rail Stand)
1.4 IO Interface

Upper: 4DI, RS485, Power line in and power in socket.
    (Only select one power input)

Down: Ethernet (RJ45), Reset, Reboot and 4 Latching Relays

<table>
<thead>
<tr>
<th>Description</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>4DI</td>
<td>Provide both type input</td>
</tr>
<tr>
<td>General purpose digital input</td>
<td>1. 500ohm Resistance dry contact input</td>
</tr>
<tr>
<td></td>
<td>2. detect (50V<del>4.5V)/(0</del>3V) logic High/Low bi-direction wet contact input</td>
</tr>
<tr>
<td>RS485</td>
<td>Receive/send RS485 message to internet</td>
</tr>
<tr>
<td>Power line in</td>
<td>Power input: for line input 12~30 VDC</td>
</tr>
<tr>
<td>Power in socket</td>
<td>Power input: for power adaptor 12V 1A VAC</td>
</tr>
<tr>
<td>Network</td>
<td>10/100 Mbps, Ethernet RJ45 connector</td>
</tr>
<tr>
<td>RST = Reset</td>
<td>Set back to manufacture default</td>
</tr>
<tr>
<td>RAT = Reboot</td>
<td>Reboot the device power</td>
</tr>
<tr>
<td>4 Latch Type Relay</td>
<td>16A/250V (memory relay)</td>
</tr>
<tr>
<td></td>
<td>Low power dispassion, lower spike, no heat more durable!</td>
</tr>
</tbody>
</table>
2. Hardware installation

2.1 Before Starting

*Before setting up the device make sure of the following:

1.) All the package contents are all included if anything is missing please contact the dealer where the device was purchased from.
2.) Check the power input cable is working correctly.
3.) Check all cables to make sure there are no problems with it.

2.1.1 Package:

- **Standard**:
  - IP 9823LT-RL
  - CD with manual and software

- **Option**:
  - Power adaptor (12V 1A)
  - Network cable (RJ45 connector)
  - Din Rail mount

2.1.2 Minimum system Requirements:

- Windows OS with network capacity & web browser. Like Google Chrome, Safari, IE 9.0 or above.
- Ethernet Hub / Switch (at least 2 ports)
- Ethernet cable with RJ45 connector
- Power supply for IP9823LT-RL (12 ~ 30 VDC unregulated)

2.2 Hardware Connection

This section provides basic information on wiring the power supply, I/O units, network connection and LED display.
Power supply connection

There are two power sources for IP9823LT-RL.

1. Power line in: 12 to 30 VDC (in Green socket)
2. Power adaptor: 12V 1A VAC (in Black socket)

**MUST only select one power input.**

2.2.2 IO connection
The system uses a plug-in screw terminal block for the interface between I/O modules and field devices. The following information must be considered when connecting electrical devices to I/O modules.

2.2.2.1 DI

1. Location :

2. Connection :

3. Specification :

Provide 4 DI with both dry contact and wet contact. General purpose digital input. Provide both type input
* 500ohm Resistance dry contact input
* Detect (50V~4.5V)/(0~3V) logic High/Low bi-direction wet contact input

2.2.2.2 Relay

1. Location:

2. Connection:

   Relay number from left to right: Relay # 4, 3, 2 & 1

3. Specification:

   4 Latch Type Relay: 16A/250V (memory relay) Low power dispassion, lower spike, no heat more durable!

   Latching type relay and each relay can switch power.
   * max. 260 VAC @ 16 A. max. 300 VDC @ 16 A
   * Relay On Time 15 ms. Relay Off Time 8 ms
   *Max. Switching 20 operations/minutes
### 2.2.2.3 RS485

User can receive or send RS485 message to internet.

1. Location:

![RS485 Diagram]

2. Connection:

![RS485 Connection Diagram]


### 2.2.2.4 Thermal / Humidity sensor

1. Location:

![Thermal Humidity Sensor Diagram]

2. Specification:

The Humidity Temperature Sensor on the board. Sensing range

- Temperature: -20 ~ +60 C
- Humidity: 20 ~ 95 RH%
2.2.2.5 LED Indicators

There are LED lights near the IO to indicate the IO status.

Led lights for DI, Relay and Power

Location:

- 4 DI: in RED
- 4 Relay + 1 WF (power): in Yellow

2.2.2.6 Network connection

Please refer following procedure:

1.) Connect the Ethernet cable (RJ45) to the 9823 to user HUB/Switch.
2.) Then connect the power cable into the power input port of the 9823.
3.) Connect the device that user would like to control to the IO of the 9823.
4.) After power in for around 60 seconds, there is a short beep sound for 9823 which means the system reboot successfully

2.2.2.7 Reset & Reboot

- RST: Means Reset, set the device back to manufactory default. Like IP, password, schedule, ping setting and IO setting.

Keep pressing the RST button for 5 seconds and then release, user will get 4 short beeps soon as release the RST button, 4 beeps means the device start setting back to default.
After reset, the device will reboot itself. So customer will get another short beep (keep pressing for 5 seconds)

The total time of RESET plus reboot procedure is around 65 seconds

- RAT: Means Reboot, device power reboot. It will take 60 seconds to boot up the system

3. System configuration

3.1 Hardware configuration

As mentioned in Page 12, user will need following items to complete user system hardware configuration.

Minimum system Requirements:

- Windows OS with network capacity & web browser.
  - Like Google Chrome, Safari, IE 9.0 or above.
- Ethernet Hub/Switch (at least 2 ports)
- Ethernet cable with RJ45 connector
- Power supply for IP9823LT-RL (12 ~ 30 VDC unregulated)

3.2 Network Connection:

We suggest to connect 9823LT-RL to user router/switch in the beginning. For quick log in, we set the default network connection for 9823LT-RL as DHCP.

If connect 9823LT-RL to PC directly, the 9823LT-RL will change to our assigned default FIX IP and will not be back to DHCP as power reboot. User will need know the IP of user PC and then change the IP of 9823LT-RL.

Please refer the two connection way to get different IP address:
● Connection 9823LT-RL with Router / Switch: strongly suggest

➔ IP 9823LT-RL ---- Router / Switch ----- PC

Please use IPEDIT to get the IP address and 9823LT-RL should get the IP at the same segment with user PC system.

For example: PC IP address is 192.168.100.123
9823 IP address is 192.168.100.125

As under same segment of user PC and 9823LT-RL, user can login 9823LT-RL by the web browser.

Note: Segment is the first 3 set (192.168.100) IP of full IP address (192.168.100.123)

● For connection 9823LT-RL to PC directly:

➔ IP 9823LT-RL --------- PC

The IP will be change to fixed IP.

Default FIXED IP: 192.168.1.168 (While this is no DHCP apparently)
Default Login: admin
Default Password: 12345678

After power on, It will take around 60 seconds to boot up the system. There is a long beep sound means boot up successfully.

3.2 Software configuration

As an embedded web server system, 9823LT-RL work as power on and do no need to install the driver. There is no driver to initial the system. User only need to install the IP address searching software "IPEDIT" to find out the IP address of 9823LT-RL in the beginning.
3.2.1 Software installation

The **IP Family CD** comes with the device, it has all the necessary software to run and setup the device.

- **IPEdit**: for search IP address of LAN/WAN in Windows system
- **IP Power Center**: for multiple IP Power devices control in one software.

Please refer the following procedure:

1. Place the **IP Family CD** into the CD/DVD Rom drive. The CD will auto run, but if it does not go to the CD/DVD Rom drive and select the “**autorun.html**” file. If the IE/Google chrome/user default web browser do not auto run, please go to the CD and select the file “**autorun.htm**” and open it by user web browser.

2. Please select the model IP9823LT-RL

3. There are software, manual and QI in this area for download.

Download the software – **IP Family** and the software shortcut will be on the top of user pc desktop. Click “ipedit.exe”.

IP Edit is a search tool designed to search, configure, or access the IP Power device from a local networked computer. Then user can select searched IP address to log in the webpage of IP Power device.

3.2.2 Software overview

**IPEdit** is a free search software developed by Aviosys for searing IP address of all IP Power series. User can change the name, gateway, IP address, netmask and two HTTP ports and read the MAC address in this software.

For IP9823LT-RL, please use the version of IPEdit in package CD.
Note: If there is no IP list in the window of local devices area of IPEDIT, please refer the following situation of user connection:

- The IP 9823 should be under same segment and same router with the PC with IPEDIT program.
- Please disable the Firewall and Anti Virus software temporarily in the PC and try again.
- There might be two Network working on the PC system, like two LAN cards, please disable one for IPEDIT to search the 9823LT-RL.

Double click the IP address of 9823LT-RL in IPEDIT and the PC will execute web browser like IE or Google Chrome and there is wizard pop up to enquire the Username and Password.

Username: admin  Password: 12345678
Use can change the IP address information of 9823.

1.) In the local devices section user will see user device show up if connection correctly.
2.) Select the 9823 device and the device information will pop up on the right.
3.) Check to see that the gateway IP and the IP Address (9823) match user current network.

If not, type in the correct information, then hit the submit button to save changes.

For example:
If user have the following information regarding the 9823 and user network

User PC Network:
Computer IP Address: 192.168.1.122
Gateway: 192.168.1.1
Sub Net mask: 255.255.255.0
Port: 80

User 9823 in IPEDIT:

<table>
<thead>
<tr>
<th>9823 IP Address:</th>
<th>Gateway:</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.168.100.34</td>
<td>192.168.100.1</td>
</tr>
<tr>
<td>Sub Net mask:</td>
<td>Port:</td>
</tr>
<tr>
<td>255.255.0.0</td>
<td>80</td>
</tr>
</tbody>
</table>

[Since the IP Address of the 9823 is: 192.168.100.34]

User will need to make sure that the first 3 segments of user 9823 IP Address must match the first 3 segments of user gateway IP.

First 3 Segment of Gateway Address: 192.168.1.X
So user new IP Address for the 9823 should be: 192.168.1.XXX

New Network Information

9823 IP Address: 192.168.1.26
Gateway Address: 192.168.1.1
Local Computer IP Address: 192.168.1.122
Sub Net mask: 255.255.255.0
Port: 80

4.) Press the “Rescan” button to see if changes have been made.
5.) Double click on the device in the local device section and an IE web browser with the device login will pop up.
6.) Type in the default Login and IP Address to enter the device.

Default Login : admin Default : 12345678
Notice : User can click "REF" in IEPDIT to auto search proper IP setting for 9823. It will take few minutes to show the suggest wizard.
Please click “APPLY” as seeing the suggest wizard, click "yes" to ignore the remind message of IP being used and then type the Username and Password to change the IP setting. Username: admin Password: 12345678

Notice:
# Segment: The first 9 digits of the IP Address.
EX: The IP of user PC is 192.168.100.122. If the “Local IP Address” at WiFi Info is 192.168.100. x (X can the value of 1~252), user PC can get into the webpage of 9823.

# Please press “Rescan” to search the router near by again if can not see user router in the list.

3.2.3 Using IP Service ( & CNT )

IP Service is a function which allows user to search for the device easily without having to remember long complicated IP address. Instead, if user know the device’s name of user IP Power device and user can easily find IP Address with IP Service. To log in the webpage of 9823 on Internet, user still need to do the “Port Forwarding” in own router.

Before using “IP Service “, please change the device name of user 9823 to avoid similar name in Host Server.

1.) Open software “IPEdit” and select the server that user’s 9823 is designated to.

2.) Hit the Green Connect button on the top of IP Edit.
3.) Then type in the 9823 Name that user have selected for the device and press the Search button.

4.) Find user device and double click on the screen and a IE window will pop up connecting to user device.
   *User device must be Port Forwarded for the login screen to appear.

EX: The 9823 device name as IP_POWER , and user can search the device easily :

5.) After user have connected to user device, type in the Login and Password for user device

### 3.3 Internet Setup

To connect the IP Power 9823 on Internet, there are two ways
- Setup Port Mapping / Port Forwarding in user router. Please check user Router owner’s manual .
- Use our own software “ IP Power Center “ : Please refer to the “IP Power Center “ manual in the CD
- Use “UPNP “ : User can enable or disable the function .
4 Webpage Interface overview

The 9823LT-RL webpage offers a graphical interface that helps user configuration. It is also very convenient to test and monitor user remote data acquisition and control system. The following guidelines will give user some brief instructions on how to use this device. The configuration column at the left side of the Web Interface are the functionality and setup of the IP Power 9823LT-RL.

There are 5 areas:

- **Information**: Device Name, Display, Time and Humidity & Temperature status
- **IO Control**: DI-DO, Schedule & Ping.
- **Network**: Setting
- **Application**: Email, DDNS, Communication & IP Service
- **System**: Management, Information, SysLog & Firmware
- **Logout**

4.1 Information

4.1.1 Device Name:

The device name show in yellow at the left side of webpage. User can change the name in Application → IP Service → Device name

Please change the name in English only and do not use other symbols like !@#$%^&*()_+
4.1.2 Display

Click any part of the deep blue column can hide or display the configuration column. This design is for small display like smart phone.

Normal - with full display / Without configuration column

4.1.3 Time

User can get Time at Year – Month – Date Hours : Minutes : Seconds here.

To setup the Time, Please go to “System → Management → NTP Settings”, there are several ways to setup the time.
4.1.4 Humidity & Temperature status

There is a Humidity & Temperature sensor on 9823LT-RL board shows the temperature value in Celsius (°C) and Fahrenheit (°F) and the Relative humidity (%)

Sensor Range:
Temperature: -20 ~ +60 °C or -4 ~ +136 °F
Humidity: 20 ~ 95 % RH

4.2 IO Control

The IO Control Section allows user to directly or automatically get the status of DI, control the Relay or the DO, setup the Schedule for the Relay or the DO, setup the Ping function of Relay outlets.

There are 3 sections: DI-DO, Schedule & Ping.
4.2.1 DI-DO

In this area, user can control & setup the IO - Relay, DI and DO by selecting the button "IO Control" or "IO Setup".

4.2.1.1 IO Control

Here user can get the status of DI Sensors and control the DO-Relay and the DO.

A. Relay

There are 4 Latching Relay outputs in IP Power 9823LT-RL. Each relay can be controlled ON, OFF or Reboot individually.

Latching relay is Low power dispassion, lower spike and no heat. It is more durable than other normal relay. Latching relay is also a memorable relay. As the device power turns off, the relay status will keep as it is at ON or at OFF.

There are two operations for controlling the relay :

A-1 Manual control: Control each port ON or OFF directly by pressing the power button.

A-2 Power Cycle control: Manually Control the relay delay to turn ON / OFF. The relay cycle time can be set from 1 to 9999 seconds.
User can set up the time and the final status in power cycle as ON / OFF.

For example: (sec = seconds)

- Original Outlet as “OFF”, select final status as “ON” & fill 15sec:
  After press power cycle button, the outlet will turn OFF for 15 seconds and then turn ON.

  OFF (15 sec) → ON

- Original Outlet as “ON”, select final status as “ON” & fill 10sec:
  After press power cycle button, the outlet will turn OFF for 10 seconds and then turn ON.

  ON -- > OFF (10 sec) → ON

- Original Outlet as “OFF”, select final status as “OFF” & fill 8 sec:
  After press power cycle button, the outlet will turn ON for 8 seconds and then turn OFF.

  OFF → ON (8 sec) → OFF

Notice:
As use Latching Relay in IP 9823, there is no difference of Normal Closed Relay (NC) or Normal Open Relay (NO). As there is no power for 9823 device, the relay status will keep as it is at ON or at OFF.
B. Digit Input (DI)

There are 4 normal DI for Dry Contact or for Wet Contact

Dry contact means normal contact (shorting link).
WET contact means the sensor is providing or passing some voltage or current to.

Note: We design the 4 standard DI for 9823 to use as all DRY contact or all Wet contact.

4.2.1.2 IO Setup:

User can do the advance setup in Relay, DI, setup “Wake on Lan” or “Shutdown on Lan”:

- In Relay: Name, mode, Alarm (Email / Beep) and Default Power status.
- In DI: Name, mode, Alarm (Email / Beep), Event Action and Notice.
- Wake On Lan
- Shutdown On Lan

A. In Relay:

<table>
<thead>
<tr>
<th></th>
<th>Relay1</th>
<th>Relay2</th>
<th>Relay3</th>
<th>Relay4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>power1</td>
<td>power2</td>
<td>power3</td>
<td>power4</td>
</tr>
<tr>
<td>Mode</td>
<td>Toggle ON/OFF</td>
<td>Toggle ON/OFF</td>
<td>Toggle ON/OFF</td>
<td>Toggle ON/OFF</td>
</tr>
<tr>
<td>Beep Notice</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
</tr>
<tr>
<td>Email Notice</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
</tr>
<tr>
<td>Power ON</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
</tr>
</tbody>
</table>

Apply
A-1 Name: Please change the name in English only and do not use symbol like !@#$%^&*()_+

A-2 Mode: Show the status of the IO

A-3 Beep Notice: As the relay turn on or turn off, the beeper will alarm.

A-4 Email Notice: To use this function, please fill email information in “Email” area under “Application”. Please refer the setting information in page #56

A-5 Power ON

Here is to setup the default power status as device power reboot.

The control section allow user to set the power status on ON or OFF or LAST when the device power Rebooted. The output will be same status as choose LAST before the device power turn off. To save the setting here, please click “Apply” button.
Notice:
As use Latching Relay in IP 9823LT-RL, there is no difference of Normal Closed Relay (NC) or Normal Open Relay (NO). As there is no power for 9823 device, the relay status will keep as it is (ON/OFF).

B. In DI:
DI 1, 2, 3 & 4: The 4 DI are stand. Support Dry / Wet Contact.

<table>
<thead>
<tr>
<th>Name</th>
<th>DI1</th>
<th>DI2</th>
<th>DI3</th>
<th>DI4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Edge Triggered</td>
<td>Edge Triggered</td>
<td>Edge Triggered</td>
<td>Edge Triggered</td>
</tr>
<tr>
<td>Beep Notice</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
</tr>
<tr>
<td>Email Notice</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
<td>OFF ▼</td>
</tr>
<tr>
<td>Event Action</td>
<td>Undo ▼</td>
<td>Undo ▼</td>
<td>Undo ▼</td>
<td>Undo ▼</td>
</tr>
<tr>
<td>Notice</td>
<td>Event Repeat:</td>
<td>Event Repeat:</td>
<td>Event Repeat:</td>
<td>Event Repeat:</td>
</tr>
<tr>
<td></td>
<td>None ▼</td>
<td>None ▼</td>
<td>None ▼</td>
<td>None ▼</td>
</tr>
</tbody>
</table>

B-1 Name: Please change the name in English only and do not use symbol like !@#$%^&*()_+
B-2 Mode: Show the status of the IO

B-3 Beep Notice: As the DI status change, the beeper will alarm.

B-4 Email Notice: To use this function, please fill email information in “Email” area under “Application.” Please refer the setting information in page #56.

B-5 Event Action: One DI can trigger one Relay.

Use can trigger Relay ON/OFF/Cycle as the assigned DI Rising edge.
Like Relay Disconnect, connect or cycle (from Off→On, Or from On→Off→On)

\[
\begin{align*}
0 & \quad 1 \\
& \quad \text{rising edge}
\end{align*}
\]
B-6 Notice: For DI 1, 2, 3 & 4 only. The event action can set as one time or always.

B-7 Bounce filter: only in DI #5 & 6, User can Enable or disable the filter

C. *Wake On Lan*:

Remote Wake up PC by MAC address in Ethernet (LAN). Use Network port (RJ45), you can wake PC on WAN by PC’s MAC address.

Wake on LAN (WOL) premise:

(1) First the PC mother board needs to have Wake on LAN support and enable this WOL function in the BIOS setting.
(2) User’s network card must also support “WOL”, remember to connect your connect cable to Mother board or the network card cannot send the “power on” message to the motherboard.

After both the motherboard and network card have been setup, you can use WOL function by following the steps below:

Step 1: Log in 9258 web page and go to “Network Wakeup”
Step 2: Type in your MAC address then press “send” – the PC will be power ON.

<table>
<thead>
<tr>
<th>Wakeup On LAN</th>
<th>MAC</th>
<th>Wakeup</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOL1</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL2</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL3</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL4</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL5</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL6</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL7</td>
<td>000000000000</td>
<td>Send</td>
</tr>
<tr>
<td>WOL8</td>
<td>000000000000</td>
<td>Send</td>
</tr>
</tbody>
</table>

**D. Shut down On Lan**

Setting of software shut down controlled PC/ Server

Shut Down On Lan : Support Windows or Linux version

IP9823GP-LT can be used to safely turn off the PC/Server through Network. With this feature user can remotely shutdown any PC/ Server which that is connected to the IP 9823LT-RL through normal Windows shut down procedure.

Documents created in programs like Microsoft office will not be automatically saved. The IP9823LT-RL will still shutdown the controlled PC/server without saving the file. The controlled PC/Server must be in the same ETHERNET and the same SUBNET as the 9823LT-RL.

User can setup the delay time for the Relay to turn OFF after SOL command place by 9823LT-RL. The delay time is working for SOL1 ~ 4 (Relay 1 ~ 4) only.
Before operating the software shutdown function it is essential to install our software:

**Installing and Setup of the “PowerOFFDelayConfig.exe”:**

1. Insert the CD that came with the device into the PC that you want to turn off.
2. Please download the software in our attached CD: SDK → Shut Down On Lan → PowerOFFDelayservice.zip and unzip the software and install program “PowerOFFDelayConfig.exe” into the PC that will be controlled.
3. Execute and fill correct information in each section:

   - **PowerOutlet**: Enter the power number in the 9823LT-RL that user want to control
   - **MAC**: Enter the MAC address of the 9823LT-RL
   - **Power IP**: Enter the IP address of the 9823LT-RL.
   - **HttpPort**: Fill the port of 9823LT-RL, default value is 80, if amend the port in 9258 please correct.
   - **UserName**: admin
- **Password**: 12345678  (password can amend in web page)

  a.) Click “**Save**” to save the settings.
  b.) Then Click “**InstallService**” to install.
  c.) Then “**StartService**” then please shutdown the PC/Server.
      After the PC has been restarted, the function will be in effect.

### 4.2.2 Schedule

In this section, user can see the setting schedule list first up to 29 rules. To setup each schedule, please press “**Schedule Setting**”, then user can get the “**Schedule List**” page as following:

After setup the first schedule, the second schedule will pop up automatically in the Schedule list for user to setup new one. Use can add 29 rules one by one. Each rules can control 1 pc to 4 pcs Relay and 1 pc to 4 pcs DO.

#### 4.2.2.1 In “Schedule list”

User can see the schedule user apply and the information.

#### 4.2.2.2 In “Schedule Setting”
A. Action:

The schedule allows user to control the Relay outlet or turn ON, OFF, Cycle (Off to ON) at assigned time.

-In Relay: ON, OFF, CYCLE, WOL (Wake on Lan) or SOL (Shutdown on Lan)

- WOL (Wake on Lan): Please refer the page 34. WOL is for 9823GP-ERL to send WOL command to WIN/LINUX OS to boot up as that OS is power OFF status (not freeze status). The OS mother board need to support WOL function.

<table>
<thead>
<tr>
<th>Relay Outlet #</th>
<th>WOL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

- SOL (Shutdown on Lan): Please refer the page 35. SOL is for 9823GP-ERL to send SOL command to the WIN OS which execute our software “PowerOFFDelayConfig.exe”
“to shut down up as that OS is On status (not freeze status) The OS mother board need to support WOL function.

Note: There is LINUX version software for Shutdown on Lan

<table>
<thead>
<tr>
<th>Relay Outlet #</th>
<th>SOL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

B. Adding a Scheduled Event

First, Select the Action Duration: There are 3 setting - Once, Every Day, Every Week

Second, Select a Specific Date Range where the device will repeat the desired actions during the time specified.

Third, Select the Time Period.

Forth, Choose the Action: Enable # by clicking in the small square to mark “v”, and select one from the power action of OFF/ON/RESET/WOL/SOL as user need.
Once the scheduler has been Set Up, hit the “Apply No.X Sch” button and user will see user setting located on the bottom of the Action section.

C. Edit a Schedule Event:

Step1: Please select the Rule user want to edit in Scheduler List.
Step2: Change the setting like Duration, Date, Time and Action.
Step3: Press “Apply NO. X Sch” button to save the setting and user will see the page refresh and new setting display in Scheduler list.

D. Delete - Click “Delete” button to remove a rule from the list.

4.2.3 Ping

The Ping function allows the device to Ping an IP Address automatically to act as a watchdog to make sure the device getting Ping and working properly. Please Click the button to switch between “Ping Setting” & “Ping List”.

4.2.3.1 Ping List

Here list out the 8 Ping List for user to check. As click any part of the gray column, user can go to the setting of that Ping number. There are 8 rules in Ping list User can setup 8 Ping rules. Each rules can control 4pcs Relay and 4pcs DO automatically.
4.2.3.2 Ping Setting

User can click to select different rules numbers at the right side button “Rule No: X” as following pictures. There are 8 rules available.

There are 3 sections of the area:

A. Global Ping Base setting:

- Ping Interval (Sec): The number of seconds between each ping.
- Response Time Out: It is the milliseconds (ms.) of the device will wait for a response from the Pinged device if no ping is detected within this time it will be considered a Ping failure.
- Ping After Action Delay: It is the seconds it take AFTER the action.
- Action max. repeat Times: It is the times to execute the Ping Failure action. Set “0” means action non stop - Keep action & no limit times.

As finish setting, please click “Apply” to save the setting in this area, the webpage will refresh and user can see the final setting result.

B. Conditional Mode:

B-1 Basic setting:
- IP & Host Name: Input the IP Address (ex: 122.116.123.138) or Host - web address (ex: www.google.com) user would like to Ping. User can use the “ping test” bottom to check the address valid or not

- Failed times then action: Setup the ping failure times for 9823 to execute the setup ON/OFF / Reset action of setting.

- Repeat: After the ON/OFF/Reset action, user can setup the Ping action to keep ping (Continue) or to Stop Ping (Stop).

B-2 Three Modes
User can select the action activate by one / two IP Host failure or either one fail

- Single Mode: Execute Action by one IP Host failure. 9823 will Ping one IP address. As the IP fail times reach to the setting times, Action (ON/OFF/RESET) will be activated.

- OR Mode: Execute Action by either one IP Host failure as setting 2 pcs IP Host.
9823 will Ping 2 IP address. Either one IP fail times reach to the setting times. Action (ON/OFF/RESET) will be activated.

- And Mode: Execute Action by both IP Host failure as setting 2 pcs IP Host 9823 will Ping 2 IP address. Both IP fail reach to the setting times. Action (ON/OFF/RESET) will be activated.

C. Ping failure action:

In the selected Rules number, please select the outlet number power to activate as ping fails and then press “Apply Rule Action” button to confirm the setting.
When the number of Ping Failures times have been reached. The device can be set to “ON, OFF, Reset-Cycle, WOL (Wake on Lan) & SOL (Shut On Lan)” function:

- **Relay ON or Relay OFF**: Turn ON or OFF the outlet
- **Reset-Cycle**: Can set up the time gap from OFF to ON. The “Sec” section is for action as Reset only.
- **WOL (Wake on Lan)**: Please refer the page 34. WOL is for 9823GP-ERL to send WOL command to WIN/LINUX OS to boot up **as that OS is power OFF status** (not freeze status). The OS motherboard need to support WOL function.
- **SOL (Shutdown on Lan)**: Please refer the page 5. SOL is for 9823GP-ERL to send SOL command to the WIN OS which execute our software **"PowerOFFDelayConfig.exe"** to shut down up **as that OS is On status** (not freeze status). The OS motherboard need to support WOL function.

<table>
<thead>
<tr>
<th>Relay Outlet #</th>
<th>WOL # or SOL #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>
4.3 Network:

The Network Section allows user to setup LAN –Ethernet. There are Static Mode (fixed IP) or DHCP for elect.

**LAN (Ethernet) Settings:**

A. STATIC (fixed IP):

For users who need to control through Internet. Setup IP address manually.
This allows the 9823 to obtain an IP Address automatically from user’s server connected to Internet.

**Please fill up the IP address, subnet mask and gateway correctly for login from Internet.**

B. DHCP Mode:

Recommended for non advance users. This allows the 9823 to obtain an IP information automatically from user’s server connected to Internet. User can only revise PORT which is 80 as default.

As the IP from DHCP Service of user`s router will be changed by router. 9823 will remember last IP of 9823 assigned by user’s router in “Last DHCP state “ for information.

**Notice:**

*Without network connection, the IP address of users Windows PC is 192.168.1.168 So the IP is for user to connect 9823 to PC directly and user do not need to change the IP of WIN PC connect to 9823 by network cable.***

C. Secondary IP : Enable or disable

This is for advances setting the DNS Server - primary / secondary

**4.4 Application Settings**

The Application Section allows user to setup email, DDNS, Communication and IP Service.
4.4.1 Email

There are 2 sections in this part -- E-mail setting and POP3 Control:

A. Email Setting:

User can get e-mail advice as one of the following situation happen:

4. Receive E-mail with IP information & MAC Address as 9823 device boot up.
5. Receive E-mail as DI Rising (Low to High), relay status change in each output.

Notice: To send out the e-mail successfully, please double check the setting of DNS.
(Network → DNS setting)

The 9823 allows user to send from public e-mail account, such as Gmail or Hotmail or other public email address.

- **SMTP Server**: This is the mail server of sender. If user select “Gmail” or “Hotmail” account as SMTP Server, 9823 will fill the SSL & Port automatically. If user select “Other” as SMTP Server, please fill the SMTP server information manually.
- **Port**: This is the port of SMTP Server. Most common port to send out e-mail is port 25
- **Start TLS: Enable or disable**
- **User**: Login for the e-mail address. Ex: 9823@gmail.com
- **Password**: Password for the e-mail address. Ex: 12345678
- **From**: Mail sender address to send the E-Mail out. Ex: 9823@gmail.com
- **To**: Mail receiver address to get the E-Mail in. Ex: 9223@hotmail.com
- **E-mail test**: Can help to check if the e-mail setting works.
- **Apply**: To store the setting in this section.

B. POP3 Control

User can control each port turn ON or turn OFF by e-mail. The command format is limited. Please enable the function first.
**Settings Section:**

To set up 9823 be controlled by e-mail, user need to know the both **sender’s e-mail address** and **receiver’s e-mail account Name and Password**.

- **POP3 Server**: This is receiver’s mail server
- **From**: Sender’s email address. Ex: aviosys@gmail.com
- **Port**: This is the port of POP3 Server.

If user select @gmail or @hotmail account as SMTP Server, 9823 will fill the SSL & Port automatically.

- **User**: Psername to login the receiver’s e-mail. Ex: aviosys1 or aviosys1@gmail.com
- **Password**: Password for the e-mail address. EX: 12345678
- **Tag**: User can use any message for 9823 to recognize this mail as 9823 command mail.

EX: As type “ Test ” in TAG area, the command contents is as following:

```
IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF
```

- **Interval ( minutes )**: The period of time between Send and Receive the command e-mail.
- **Mail Number**: For 9823 to search as command mail in the number of user email receiver latest. EX: setup 20 that 9823 will check the latest 20pcs email in receivers mail box for the 9823 command mail

- **CTRL format**: Control format by subject or by body (e-mail contents)

For example: Use Gmail as sender and receiver
Sender’s e-mail: 123@gmail.com
The Username to log in sender’s gmail: 123@gmail.com or abc@def.com
The Password to log in sender’s gmail: 12345678

**Command format & Example**: 

- 48 -
User can get the e-mail command contents in the section. And execute an e-mail as press “Submit “ if user has e-mail setting in the PC as following :

Command format :

IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF

There are 2 sections of the command

1. IPPOWERCTRL:TAG=Test

This is command part. Beside the tag message part ( like Test on above example) user can change in setting section , the other command must be CAPITAL and are fixed content .

2. ;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF

This is to set the outlet number ( POWER1= ) and action ( ON/OFF) , user can only control 1~4 port ON/OFF by e-mail. Do each outlet command

EX: Put “ 14ON” in tag section and place the command as following : ( at subject or body depends one user’s setting) :

IPPOWERCTRL:TAG=14ON;POWER1=OFF;POWER4=ON
E-mail example:

D. Execute e-mail command by "Subject"

```
CTRL Format:  
[Subject] [Body]
```

Example:
```
E-Mail Test:
yourmail
Subject:
IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF
Body:
```

Submit

E. Execute e-mail command by "Body"

```
CTRL Format:  
[Subject] [Body]
```

Example:
```
E-Mail Test:
yourmail
Subject:
Body:
IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF
```

Submit

4.4.2 DDNS

The DDNS section allows user to setup the 9823 with a DDNS server (i.e. www.dyndns.com). After the server has been setup correctly, enter the necessary information into the 9823 DDNS settings.

Note: The DNS server will have extra change as apply new account.
Account: the Username / account name of DDNS account
Password: the Password of DDNS account
Domain Name: The DDNS name user apply. Ex: abc.dyndns.org

For Example:

4.4.3 Communication
There are 4 different communication: SNMP, Telnet, ModBus TCP & BacNet (Beta)

A. SNMP: Enable or disable

This section is for development of system integrator who familiar with SNMP knowledge.

B. Telnet: Enable or disable
C. **Modbus**: We supply 3 models of ModBus control

C-1. **ModBUS TCP**: Just Enable or disable this function

![Modbus TCP configuration](image)

C-2. **Modbus Gateway model**: Need to Enable Modbus, Enable RTU & fill Modbus ID.

C-3. **Modbus RTU**: Need to Enable Modbus, Enable RTU & fill Modbus ID.

![Modbus RTU configuration](image)

D. **BACnet TCP - Beta**: Enable or disable
4.4.4 IP Service

In this section, user can setup:
A. IP Service & CNT (Cross Network Technology),
B. CNT 2 (MQTT)

**IP Service & CNT Setting:**

The IP SERVER allow 9823 to be easily accessed on the internet by our IP Power Center or IP EDIT. With this feature anyone can find there device with no problems.

**IP Server:** Allows user can find user of 9823 on the internet without having to remember long IP Addresses. Instead user can just remember the name of user device.

E. Enable IP Server: Enable or Disable this function click .
F. IP Server & CNT Server: For easily setting, please select same server number for the 2 part.

User can search the 9823 by Device name, Country or City.

This allows the device to easily be accessed on the Internet, user no longer have to Port Forwarding, user device to be able to use it. Only some devices are CNT compatible.

Please refer page #26 for the function of IP Server
B. CNT2 (MQTT)

Please contact with distributor or us for the details information.

4.5 System Setting

The System Section allows user to do setting of management, system information, Setup SysLog, check firmware version / Update firmware online.
4.5.1 Management

In this section there are several setting: Administrator setting, Host Connection Interval, NTP setting, Backup Setting, Load Factory Default, Restart System

The message show:

**Administrator settings**

The User Management section allows user to create users that will be able to access user device.

There are two main types of users:

There are three Authorities in 9823. The account name and password can be changed by user, but each Authorities only support one Account name & one password.
- **Admin**: The *Administrator* has the authority to create other users, remove users, and control the device. 9823 will ask to log in again if change the Default Setting here.

- **Operator**: The operator can only control the setting of “IO Control” section but can not see other page of 9823.

- **Viewer**: The viewer can only see the “IO Control” section, but can not see other page of 9823.

Default Setting of the Authorities:

<table>
<thead>
<tr>
<th>Authority</th>
<th>Account name</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin</td>
<td>Admin</td>
<td>12345678</td>
</tr>
<tr>
<td>Operator</td>
<td>user</td>
<td>user</td>
</tr>
<tr>
<td>Viewer</td>
<td>guest</td>
<td>guest</td>
</tr>
</tbody>
</table>

**Note**

Please amend the password as number or English character from 1 to 8 characters.

*Do not use special symbol like “” ; : ~ ! @ # $ % ^ & * ( )*

Please click “Apply” button after change the account name / password.

**Language settings**

There are three display Language - 3 Language (English, Chinese, Simple Chinese).

**NTP setting**

In this section, user can setup the date, time and NTP server to get the time synchronization.

![NTP Settings](image-url)
NTP synchronization: User can setup the time gap (1~300 hours) for 9823 to check the time with the NET server.

Import configuration files

Back up the setting and setup. User can export the setting of 9823 into a “DAT” format. It will save most the setting in 9823. User can import the file which is exported from 9823 as “DAT” format. It will help user to setup many 9823 device in a short time.

As press “Import”, there is caution message show as following:

![Caution]

The Import data file will replace current setting!

1) Import file source must export from current firmware version 925xW_v1.0611 wrong version will cause device permanently corruption.

2) When load completely, system will change the import file setting, IP, Port, SSID Name, Account, Password, mail.

Before click “Ok” to import, please do read following notice:

- Do NOT import DAT file which is not export form 9823. The warranty will be invalidated if any wrongdoing from “Import”.
- Please do Import the file in LAN / Ethernet. To avoid Import fail, please do not Import file via Internet.

System reset

![System reset]

In this section, user can click one button to set back the setting to default or restart the 9823 without device nearby user side.
- **Export configuration**: export the setup into a file for other 9823LT-RL device to import same setting. Like Schedule, Ping, name of power, Relay, DI and DO.

- **Factory Reset**: Set device back to factory default. Factory default setting of 9823 IP is assigned by DHCP. It will change the IP if load factory defaults.

  Factory Notice:

  Caution!!

  The system will replace current setting to factory default setting!!

  1) if you just updated the newer firmware, please press button at first time.
  The Default setting can ensure the newer function match the newer setting.

  2) The IP, Port, SSID, Name, Account, Password, mail.. will change to default DHCP Port 80 and password..

- **Reboot**: Power reboot the device directly. It will take around 60 seconds for boot up the 9823LT-RL

### 4.5.2 System Information

In this section, user can get the system information like System, LAN and others.
4.5.3 System Log

In this section, user can get the 9823 system operation information and send the information to assign Server IP address (not support name). The system information will be deleted after 9823 device power reboot.

![System Log]

Please click the IP and save by click “Apply”

4.5.4 Firmware

The firmware update function only support in LAN connection. NOT support under WiFi connection. Before update, please DO READ THE MESSAGE BLOW:
Upgrade selected firmware to obtain new functionality. 
**Caution! A corrupted image will hang up the system.**
It takes about 1 minute to upload & upgrade flash and be patient please.

To update the 9823, please follow the instruction below to prevent anything happens like **update incomplete** or **hardware disable** which may be caused by wrongdoing of updating. Please also update the notice in webpage before update:

1) Turn off all chat programs including (Skype, FB, QQ, AIM, Yahoo messenger ....etc.)
2) Check to make sure that all devices are turned on safely and powered
3) While updating do not turn off the power
4) Make sure that the cable is connected firmly
5) Do not interrupt the update process, the update must be completely finished.
6) Turn off, any Spyware or antivirus software which may conflict with the update.
7) Update firmware in the Local Area Network (LAN)
8) Support update under 32bit Web Browser (32 bit version only ) like IE, Google Chrome, Firefox. **Do not use browser at 64 bit version**
9) Please change the PORT as 80
10) **Reboot and Do the Hardware Reset (keep pressing RESET two buttons for 5 seconds and release) after update successfully. There are 4 beep show the reset successfully.**

11) **Clear the Cookies** to avoid get the old webpage.
5. Controlling the Device

5.1 CGI HTTP Commands

CGI Commands allow user to easily integrate the 9823 with other systems and programs. Please read the instructions carefully on how to use the HTTP Commands.

To use http:// Commands open up a web browser and type in the command that user would like to use.

1. User authorization. There are 3 formats:
   - For example: IP address 192.168.1.18, Username: admin. Password: 12345678
   - 1.1 http://admin:12345678@192.168.1.18/set.cmd?cmd=getpower
   - 1.2 http://192.168.1.18/set.cmd?user=admin+pass=12345678+cmd=getpower
   - The above 2 way also for HTTPS

2. Command
   - set.cmd?cmd=
   - All command do not separate capital / lower case, the connect symbol between commands can be “+”, “&” and “?”.

2.1 To get firmware version: getversion

   System return:
   - CGI Command: Data follows
   - Version=9258W_N_v1.0.0.1

2.2 To get MAC address: getmac

   System return:
   - CGI Command: Data follows
   - mac=00929000008F

2.3 To get the status of power on/off: getpower

   System return:
   - CGI Command: Data follows
   - p61=0, p62=0, p63=0, p64=0
   - P61 to P64 means: POWER1 to POWER4

2.4 To set the power on/ off: setpower&p6x=0 or 1
p6x=0 means off, p6x=1 means ON, x can be 1 to 4 (power1 to power 4)
Example: Turn on POWER1 and POWER2 and turn off POWER3:
System return:
CGI Command : Data follows
p61=1,p62=1,p63=0

2.5 Setup power to reboot as RESET: setpowercycle & p6x=delayTime
X can be 1 to 4 (power 1 to power 4), ; delayTime mean the time (second) waiting for reset

For example:

System return:
CGI Command : Data follows
p61 cycle ok,p62 cycle ok,p63 cycle ok
5.2 Telnet Control

Notice: The command \texttt{“-C” & “-T”} are for models 9823 only.
6. FAQ:

Q1: Why can`t I see the 9823`s IP address in IPEDIT.exe?

Ans.: Please check the PC you use is under same LAN/ network / segment as 9823. Please turn off some Anti-Virus / online chatting software. If there are more than 1 network card, include dynamic network card, please disable one and make sure the one you selected is under the same segment with IP9823.

Q2: Why can`t I see my 9823 after arrange the port forwarding in my router?

Ans.: Please make sure the Network Type (Gateway) is correct - LAN or WAN.

Q3: Why can`t I receive e-mail?

Ans.: Please check the DNS and GATEWAY setting first (Check user router or ask user ISP company). There is a test button for checking the setting success or fail to send e-mail.

Notice:
Under DHCP mode - 9823 will get the Network type (Gateway) information automatically. But if under Static mode, please do fill up the correct Network type (gateway).

Step 3: Connect user PC and 9823 to a router by LAN. Then reboot 9823 (MUST DO). After 45 seconds with a long beep sound, user can find the LAN IP of 9823 by IPEIDT.exe.

Q5: How can I reset to default:

Ans.: Keep pressing the button of “RESET for 5 seconds at least.

To reset to original manufacture settings: press the reset button with a sharpen pin for 5-6 seconds then RELEASE. There will be 3 beeps sound which means reset start and...
9823 will be rebooted itself - there is one beep after reboot - and most information go back to default setting (LAN IP).