

IP Power 9858 MT

User Manual



Version: V1.01
(Firmware Version: 1.29_710)
Date Released: July. 2022

Warning: Any changes made to this equipment without permission may cause damages to the device

IMPORTANT NOTICE

1. IP Power 9858MT was designed for indoor use, we carry no responsibility for possible damages caused by outdoor use, especially in the rain.
2. 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 .
4. Do not shake the IP Power 9858MT in any fashion
5. Please contact the dealer If IP Power 9858MT is not working properly.

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Table of Content

| | |
|--|-----------|
| 1. INTRODUCTION | 5 |
| 2. PRODUCT INFORMATION | 6 |
| 2.1 Features | 6 |
| 2.2 Specification | 7 |
| 2.3 Minimum System Requirements | 7 |
| 2.4 Package Contents | 8 |
| 2.5 Interface | 8 |
| 3. SETTING UP YOUR DEVICE | 10 |
| 3.1 Before Starting | 10 |
| 3.2 Hardware Connection | 10 |
| 3.3 Software Installation | 10 |
| 3.3.1 LAN connect by IP Search software “ IPEDIT “ | 11 |
| 3.3.2 Internet Setup..... | 14 |
| 3.3.3 Using IP Service | 14 |
| 4. WEB INTERFACE | 16 |
| 4.1 Top Column | 17 |
| 4.1.1 Device name | 17 |
| 4.1.2 Time..... | 19 |
| 4.2 Power Control | 20 |
| 4.2.1 Control | 20 |
| 4.2.2 Schedule..... | 28 |
| 4.2.3 Ping | 31 |
| 4.2.4 M2M mode | 34 |
| 4.2.5 Rotation system | 37 |
| 4.3 Network | 38 |
| 4.4 Application Settings | 41 |
| 4.4.1 Email..... | 41 |
| 4.4.2 DDNS | 46 |
| 4.4.3 Communication..... | 46 |
| 4.4.4. IP SERVICE | 49 |
| 4.5 System Setting | 52 |
| 4.5.1 Management | 52 |
| 4.5.2 System Information | 56 |

| | |
|--------------------------------------|-----------|
| 4.5.3 System Log | 56 |
| 4.5.4 Firmware..... | 57 |
| 5.OTHER WAYS TO CONTROL | 58 |
| 5.1 CGI HTTP Commands | 58 |
| 5.2 Telnet Control..... | 60 |
| 6.FAQ : | 61 |

1. Introduction

IP Power 9858MT is a new generation of the Power Distribution Unit (PDU) & Remote Power Control (RPC) system. Its able to control in the network

With embedded web server and HTTPS protection, 9858MT supports higher grade security as working on Internet. User can control power easily and more safely through the web browser in most OS like Windows / iOS / Android system , like Internet Explorer (IE) , Firefox , Google Chrome , Safari and so on .

9858MT allows user to remote control power up to 4 individual devices on/off / reboot via network . As support SSL & SNMP, user can use public email like Gmail / Hotmail / Yahoo Mail to get the email as the ON/OFF status change. User can also **control** by **e-mail** without doing port forwarding / port mapping and search the other IP Device in webpage directly .

Besides control through web browser, there are specific **APP for** Android / iOS user to control the outlet ON or OFF and quick search device in LAN / WAN of iOS / Android system . No need PC system environment or emergency use for quick response in second.

Not only control manually, 9858MT supports Auto Ping , Time Scheduler which is more suitable for factory / commercial / office / home automation . There is LOG information & send LOG to assign IP (SYSLOG) in webpage. User can BACKUP the setting and export the same setting to multiple IP POWER to make the installation procedure more efficient .

9858MT has QR code of different network to log in fast and easy.

Apply Own Language display in webpage.

UPNP **

For system integrator developing , there are several popular tolls like , MQTT * , TelNet , SNMP and HTTP / CGI Command (SDK) for .

The various applications of the 9858MT includes:
Power Management, Server Management, Internet Controllable Timer,
System Integration, Remote Power Control in Remote locations etc.

User Friendly . Convenience & Powerful ,

* MQTT 1.3.1 Cloud IoT protocol - supports
Cloud IoT Server of Microsoft AZURE , Google Cloud IoT & Amazon AWS IoT

** UPNP -- No need to do " port forwarding " from router , simply enter webpage via Wan (user's router need to support UPNP)



2. Product information

2.1 Features

1. 4 ports individual Remote power switch for power On, Off and Reboot.
2. Web Server built-in design, directly control by web browser in PC & Smartphone (WIN, Android & iOS) , like IE , Google Chrome , Safari.
3. Network connection : DHCP, Static IP & UPNP (**)
4. Network Protocol -- **HTTPS** / HTTP, SNMP(MIB), NTP, DHCP, TCP/IP, SMTP, UDP, DDNS.
5. Power Surge protection & FUSE embedded in
6. **SYSLOG** : Support Log function & send to assign IP address
7. Time Schedule - can pre-set a suitable time to turn power on / off automatically .
8. **Auto Ping** for network control & segment management automatically
9. Higher grade Component & Relay for better quality / performance / durability
10. **Back Up** for quick setup for multiple devices like Time Schedule, Network Setting.
11. Support public e-mail -- @gmail. , @yahoo , @hotmail. cometc.
12. **E-mail Control** & Advice :
 - Receive e-mail with IPs device boot up.
 - POP3 Control–Control each outlet ON/OFF through E-mail.**No Need to do Port Forwarding .**
13. Green Power Module -- no load power consumption < 0.3W -- energy savings
14. Protection of " **Inrush Current** " & " **Power Surge** " .
15. **App "IP Power "** – free download in Google play or App Store
 - Controls the outlet power ON/OFF without doing Port Forwarding / Port Mapping
 - Quick search in LAN / WAN (like IPEDIT & IP Service)
16. QR Code detection for easy & fast apply on
17. Arrange own language display in webpage
18. Second Developing tool (SDK) : CGI / HTTP command , SNMP(MIB) , Telnet , **Modbus TCP/IP , BACnet/IP & MQTT (***)**

** UPNP -- No need to do " port forwarding " from router , simply enter webpage via Wan (user's router need to support UPNP)

*** MQTT 1.3.1 Cloud IoT protocol - *Cloud IoT Server of Microsoft AZURE , Google Cloud IoT & Amazon AWS IoT .*

19. Specific software developed by Aviosys and provided free of charge :
 - SDK Available : HTTP Command (Compatible with 9858DX)
 - IP Power Center - control multiple Aviosys IP devices in same AP.
 - CNT software (Cross Network Technology)- allows user eliminate set up work on any Router without port forwarding , simply Plug & Play .

2.2 Specification

- Power input : 100 - 240VAC , 50-60Hz ,
- Maximum loading of each output: **10A**
- Maximum of Total loading : 10A / 240VAC , 15A / 100VAC
- Fuse protection : **10A / 250VAC** (with spare fuse in socket)
- Dimensions: 195 x 116 x 45 mm (L x W x H)
- Weight: 1 kg
- Enclosure – Matel case in blue color
- Operation **Temperature** : - 15°C ~ 60°C or 5°F~ 140 °F

● INLET

| | |
|-----------------------|--|
| Input plug | IEC 320 C14 . 50 - 60Hz |
| Voltage | 100-240VAC Auto sensing |
| Maximum input current | 10 Amp |
| Protection | Fuse 250VAC 10 Amp (removable with spare one in socket) |

● OUTLET

| | |
|----------------------------|---|
| Output plug | IEC 320 C13 * 4 - individually switched |
| Maximum current per outlet | 10 Amp |
| Total current | 10 Amp |
| Overload protection | Fuse 10 ^a / 250VAC |


● PHYSICAL & ENVIRONMENT

| | |
|-----------------------|------------------------------|
| Dimention (WxDxH) | 195 x 116 x 45 mm |
| Unit Weight | 1 kg |
| Operating Temperature | - 15°C ~ 60°C or 5°F~ 140 °F |
| Regulatory Approvals | CE (LVD) |
| Warranty | Standard 1 year |

2.3 Minimum System Requirements


Web Browser of WINDOWS / iOS / Android : Google Chrome , Safari , **IE and so on** .
Network connection for Internet connection .
Internet HUB & Switch (with RJ45 port)

2.4 Package Contents



| | |
|---|--|
| <p>9858MT Unit x 1</p> |  |
| <p>Guide for online CD direction : include software QI and manual</p> | |


2.5 Interface

Front View

| | |
|---|--|
|  | |
| <p>From Left to right :</p> | |
| <p>LED of Outlet Status</p> | <p>The outlet status #1 ~ #4 Indicator - Green light ON as outlet ON. Light OFF as outlet OFF</p> |
| <p>Reset</p> | <p>To set back the setting to factory default , please keep pressing the reset button with a sharpen pin and release the pressing until device beeper alarm. It will need at least 10 seconds for the action keep pressing reset button.</p> |
| <p>Reboot</p> | <p>For device power reboot by one click. It will take 70 seconds for the system boot up.</p> |
| <p>Network</p> | <p>LAN 10/100 Mbps network</p> |

Rear View

| | |
|--|---|
| <ul style="list-style-type: none"> ● 9858MT-S :  | <ul style="list-style-type: none"> ● 9858MT-T :  |
|--|---|

| | |
|---|--|
| <p>Interface from Left to right :</p> | |
| <p>4 outlets</p> | <p>Connect up to 4 individual outlets to be controlled by the 9858MT. Ports sequence as 4 / 3 / 2 / 1 .</p> <ul style="list-style-type: none"> ● 9858MT-S : IEC320 socket , 10A / 240VAC ● 9858MT-T : NEMA socket , 15A / 100VAC |
| <p>Power Input & Fuse socket</p>  | <p>In this socket, there are one power input and one fuse socket .</p> <ul style="list-style-type: none"> ● Power input : 100-240VAC. 10A 240VAC or 15A 100VAC ● Fuse : To prevent electrical surges from damaging the unit. The 9858MT comes with two fuses in the socket ,one is usage and another one is a spare for replacement . <p>TYPE: 10A 250V (9858MT-S) or 15A 250V (9858MT-T)</p> |
| <p>Power Switch</p> | <p>The Power switch turns on the input power. For device power reboot by one click. It will take 70 seconds for the system boot up.</p> |

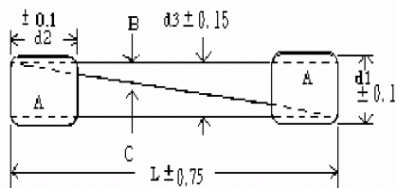
- Fuse replacement

1.) The fuse is located between the power switch and the power input plugs.



2.) Carefully remove the fuse holder with a flat screwdriver.

3.) The fuse can be purchased from electronic shops. Specification : 10A 250VAC



3. Setting up your device

3.1 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.

3.2 Hardware Connection

Please refer following procedure :

- 1.) Connect the Ethernet cable (RJ45) to the 9858MT to your local area network.
- 2.) Then connect the power cable into the power input port of the 9858MT.
- 3.) Connect the device that you would like to control to the output plug on the top of the 9858MT.
- 4.) Switching the power source to ON status, this switch is located at the rear of 9858MT.
- 5.) After power on for around 45 seconds, there is a short beep sound for 9858MT which means the system reboot successfully
- 6.) Go to page #14 for software installation guide – use IP EDIT to log in the webpage of 9858MT.

3.3 Software Installation

Please Go to www.aviosys.com/cd . The note with this online CD link comes with the package .

IP Power Software:

IP Edit (Required)

IP Power Center *(For multiple IP Power devices control purpose)



1.) Select the IP Power 9858MT



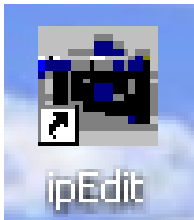
2.) All the available downloads for the 9858MT will be shown

3.) Download the required software – **IPEdit.exe** - by clicking on the download button.



Then you can select to connect 9858MT.

3.3.1 LAN connect by IP Search software “**IPEDIT**”



IP Edit is a search tool designed to search, configure, or access the IP Power 9858MT from a local networked computer.

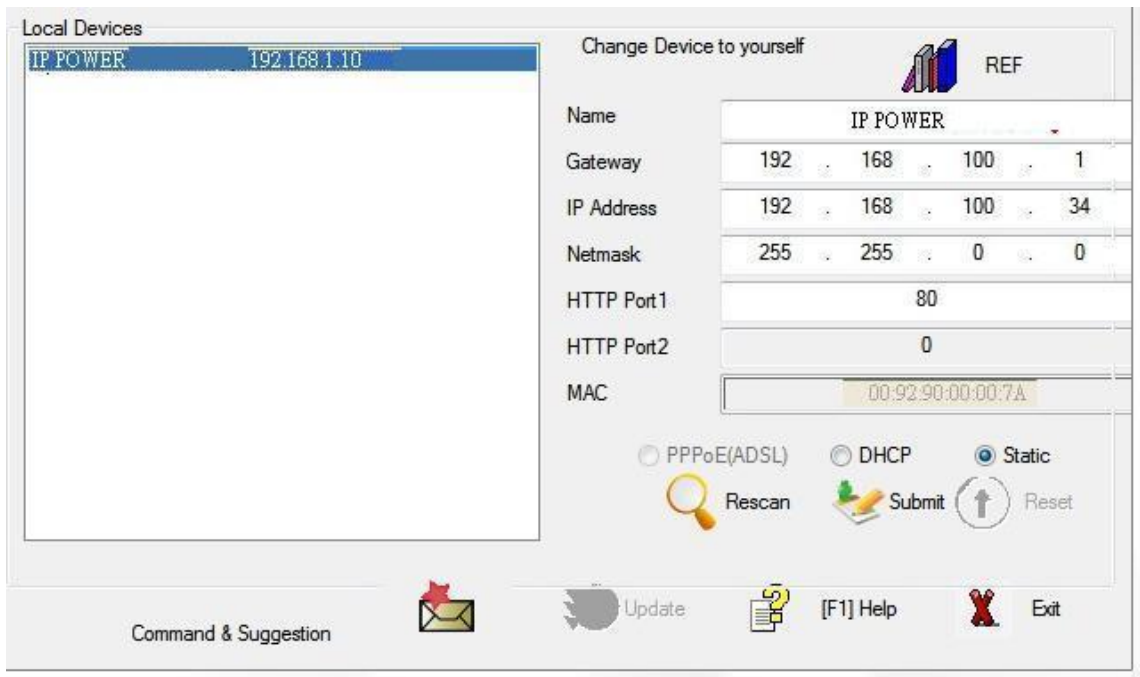
IP Power 9858MT Default Login / Password

Default IP: 192.168.1.168 (if there is no DHCP router assigned IP)

Default Login username : admin

Default Password: 12345678

1.) In the local devices section user will see user device show up if connection correctly.



Notice :

If can't see the IP in the area of Local Devices of IPEDIT.exe. Please check the following situation

1. **Boot up successfully:** Please reboot the 9858MT and check if there are 1 short beep after 1 minutes. This beep means the device boot up successfully . If not , the device may have issue.
2. **Network card :** Please check if there are more than two network card – include wire / wireless / dynamic - in the PC which used IPEDIT software . IPEDIT only support single network PC , please disable the other network connection / functions.
3. **Anti Virus software / Firewall :** Please turn off the antivirus software firewall temporary.
4. **Power :** If there is no power go to 9858MT , please check the fuse part . There will be no power for 9858MT if the fuse buttons is pop up - not easy/flexible to press as it was – by over loading for long time , please press the fuse back and the power will go to 9858MT to boot up .
5. **Connection :** Please make sure that the 9858MT is under same router with the PC used IPEDIT . It is fine to connect across multiple routers but it need to setup the MASK part which need some knowhow .

- 2.) Select the 9858MT device and the device information will pop up on the right.
- 3.) Check to see that the gateway IP and the IP Address (9858MT) 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 9858MT 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 9858MT in IPEDIT :

9858MT IP Address: 192.168.100.34

Gateway: 192.168.100.1

Sub Net mask: 255.255.0.0

Port: 80

Since the IP Address of the 9858MT is : 192.168.100.34

User will need to make sure that the first 3 segments of user 9858MT 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 9858MT should be: 192.168.1.X

New Network Information

9858MT 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

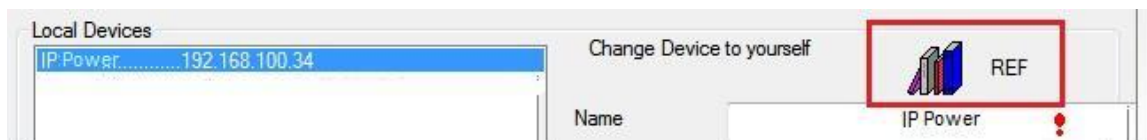
- 4.) Press the “ Rescan “ button to see if changes have been made.
- 5.) Double click on the device in the local device section and an IE web browser with the device login will pop up.
- 6.) Type in the default Login and IP Address to enter the device.



Default Login : admin

Default : 12345678

Notice :

* User can click " REF " in IEPDIT to auto search proper IP setting for 9858MT. It will take few minutes to show the suggest wizard.



| REF Setting | |
|--|---------------|
| Name | IPPOWER |
| Gateway | 192.168.100.1 |
| IP Address | 192.168.100.2 |
| Netmask | 255.255.255.0 |
|  APPLY  CANCEL | |

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 " is 192.168.100. x (X can the value of 1~252) , user PC can get into the webpage of 9858MT .

3.3.2 Internet Setup

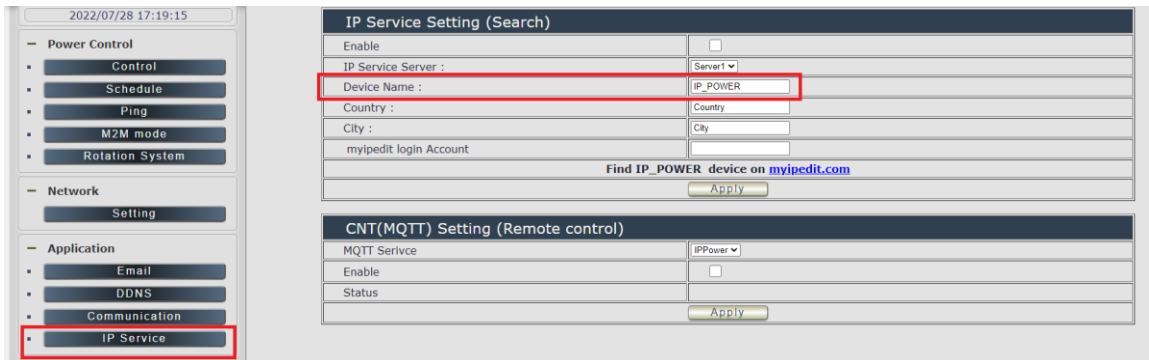
To connect the IP Power 9858MT on Internet, there are two ways

- Setup Port Mapping / Port Forwarding in your router. Please check your Router owner's manual .
- Use our own software " IP Power Center " : Please refer to the "IP Power Center " manual in software section of www.aviosys.com/cd

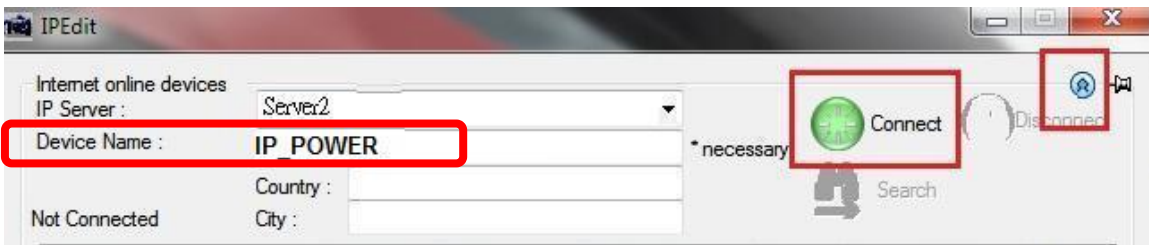
3.3.3 Using IP Service

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 9858MT on Internet , user still need to do the "Port Forwarding " in own router.**

Before using “IP Service “ , please change the device name of user 9858MT to avoid similar name in Host Server.

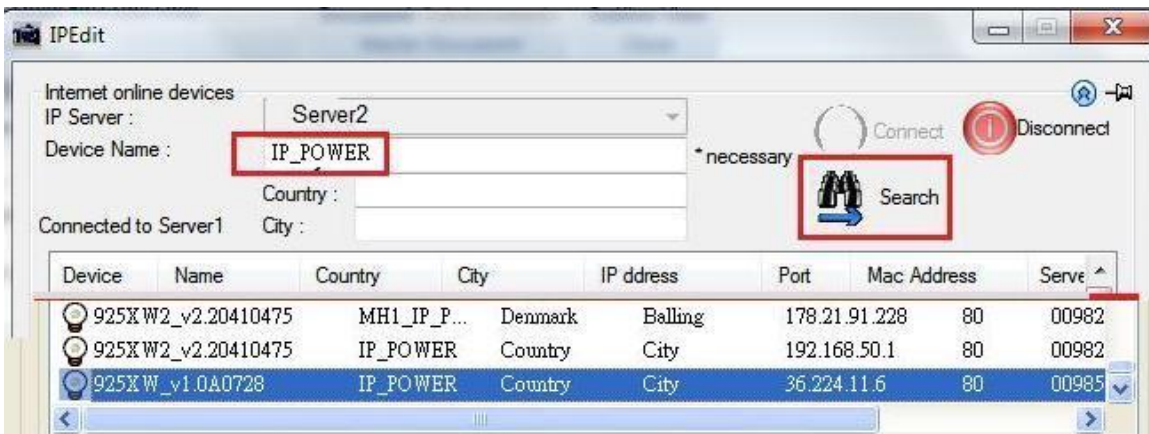


- 1.) Open IP Edit and select the server that user’s 9858MT is designated to.
- 2.) Hit the Green Connect button on the top of IP Edit.



- 3.) Then type in the 9858MT 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 9858MT 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

4. Web Interface

Once the 9858MT has been setup correctly, log into the device.

The default Username and Password for the 9858MT

Username : admin

Password: 12345678

The Control Console

The Right side Menu of the Web Interface control the functionality and setup of the IP Power 9858MT.



The IP Power 9858MT Console consists of six main sections which will be explained in details below.

Top Column : Device name & Column Display (for smart phone application) & Time Information

Power Control : Controls , Schedule, Ping, M2M mode, Rotation mode

Network : Setting

Application : Email , DDNS, Communication & IP Service

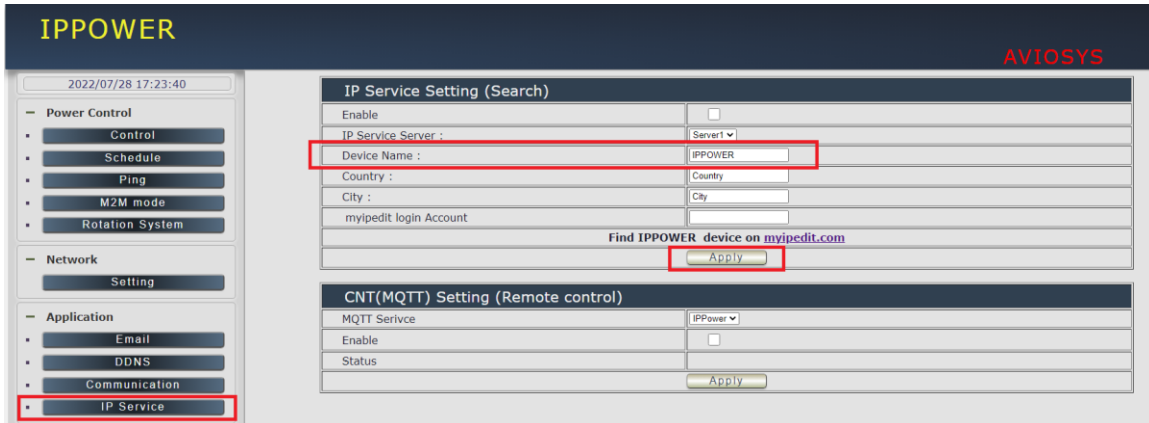
System : Management, Information, SysLog & Firmware

Logout

4.1 Top Column

4.1.1 Device name

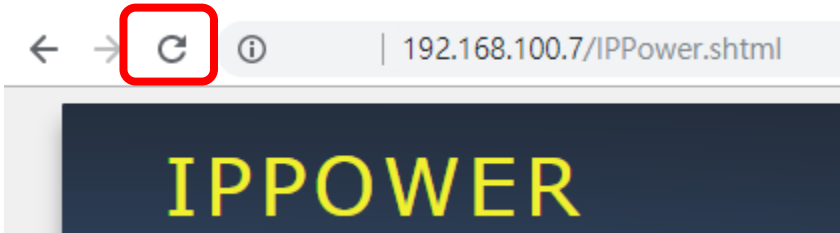
This section show the device name . You can change the device name here : Application → IP Service → Device name Change name “ IP POWER 9858MT “ as “Enjoy 9858MT “



The screenshot displays the IPPOWER web interface. The top header shows 'IPPOWER' on the left and 'AVIOSYS' on the right. A sidebar on the left contains a menu with categories: Power Control (Control, Schedule, Ping, M2M mode, Rotation System), Network (Setting), and Application (Email, DDNS, Communication, IP Service). The 'IP Service' menu item is highlighted with a red box. The main content area is titled 'IP Service Setting (Search)'. It includes an 'Enable' checkbox, an 'IP Service Server' dropdown menu (set to 'Server1'), a 'Device Name' text input field containing 'IPPOWER' (highlighted with a red box), and fields for 'Country', 'City', and 'myipedit login Account'. Below these fields is a link 'Find IPPOWER device on myipedit.com' and an 'Apply' button (highlighted with a red box). A second section, 'CNT(MQTT) Setting (Remote control)', contains an 'MQTT Service' dropdown menu (set to 'IPPower'), an 'Enable' checkbox, and a 'Status' field, with an 'Apply' button below.

Notice : Please do not use symbol like !@#\$%^&*()_+ as the character of the device name .

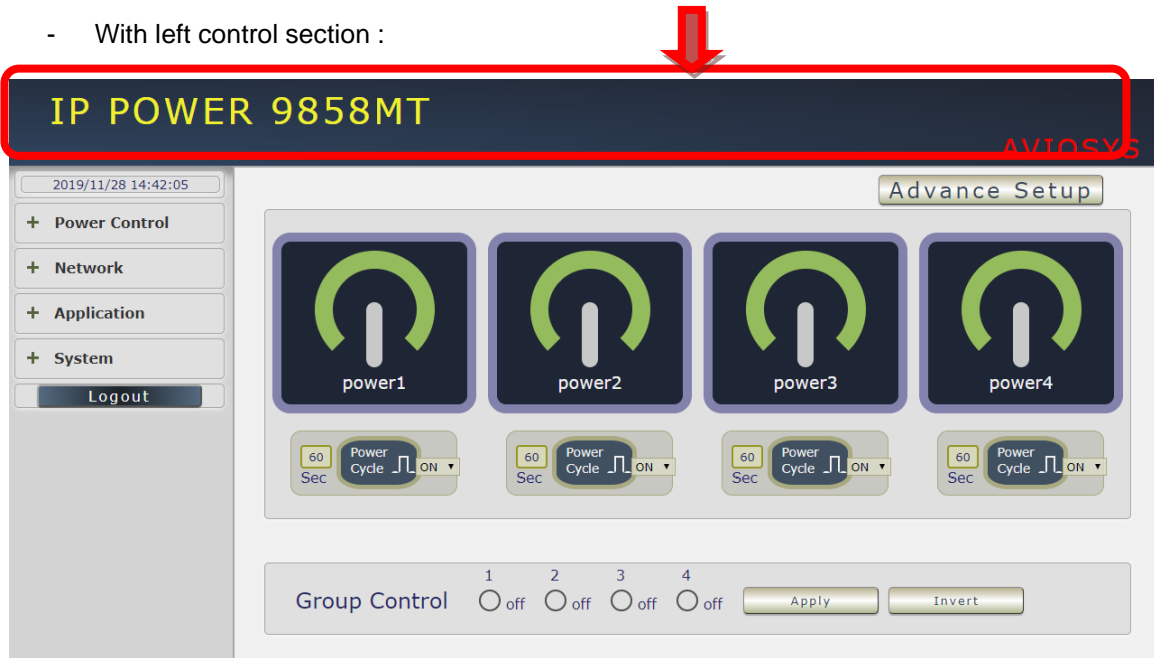
After apply the change , please click “ Refresh “ of the webpage to get the display update .



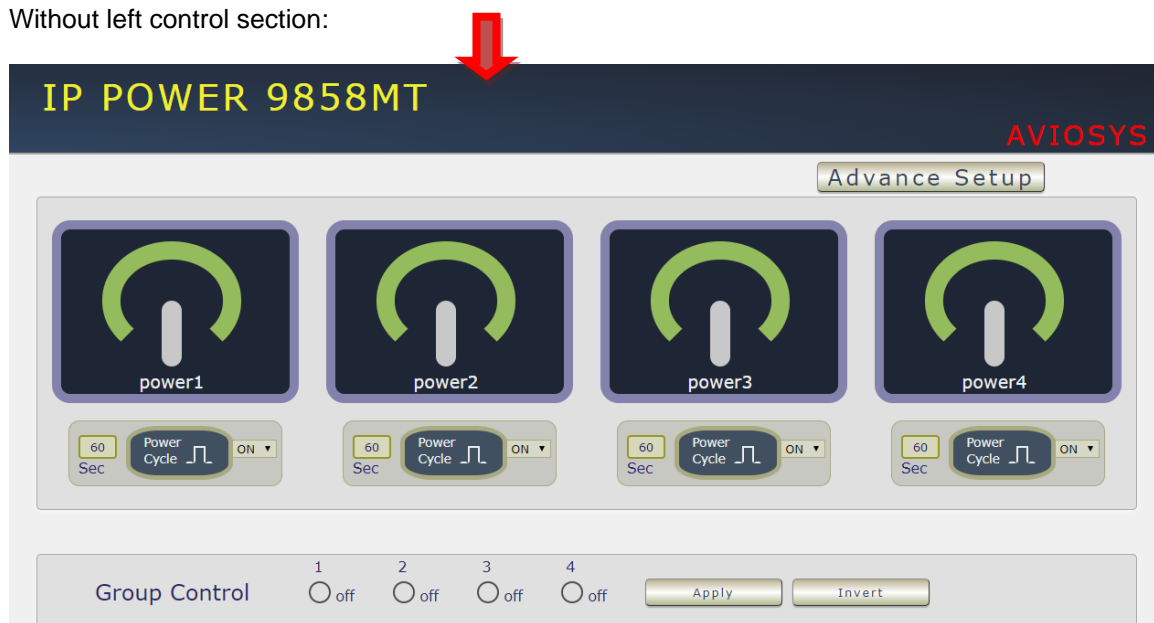
4.1.2 Column Display :

For Smartphone user to control 9858MT easily , user can select to show or to hide the left control section by pressing the blue area near device name for Smartphone control :

- With left control section :



- Without left control section:



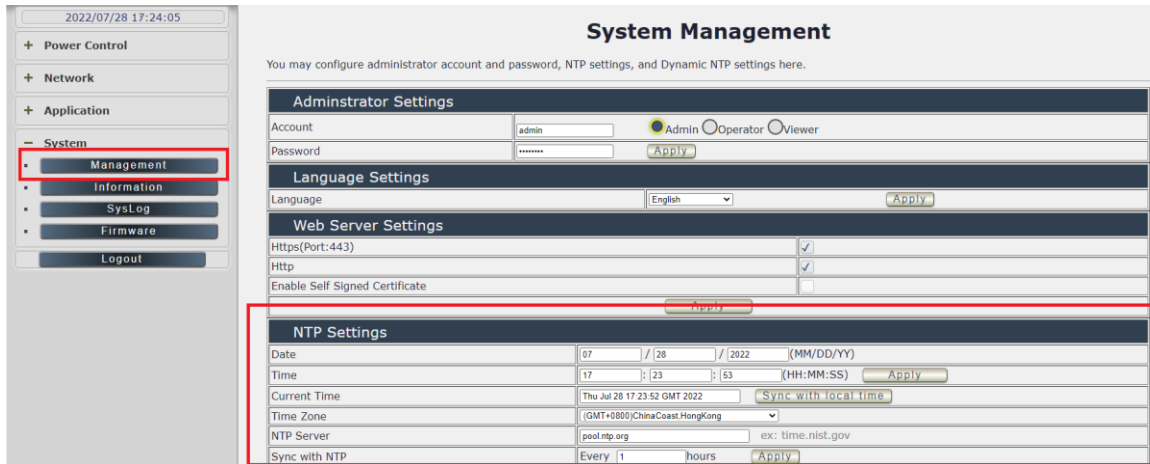
4.1.2 Time

In this section, it shows Time at Year – Month – Date Hours : Minutes : Seconds .



To setup the Time , Please go to “ System → Management → NTP Settings “ , please press “Apply” to save the new setting . There are 3 time sync situation:

Time - Manual setting , Current time - sync with Local PC or NTP Server



The screenshot shows the 'System Management' web interface. The left sidebar has a menu with 'Management' highlighted. The main content area is titled 'System Management' and contains several settings sections: 'Administrator Settings', 'Language Settings', 'Web Server Settings', and 'NTP Settings'. The 'NTP Settings' section is highlighted with a red box and contains the following fields:

| NTP Settings | |
|---------------|--|
| Date | 07 / 28 / 2022 (MM/DD/YY) |
| Time | 17 : 23 : 53 (HH:MM:SS) <input type="button" value="Apply"/> |
| Current Time | Thu Jul 28 17:23:52 GMT 2022 <input type="button" value="Sync with local time"/> |
| Time Zone | (GMT+0800) ChinaCoast HongKong |
| NTP Server | pool.ntp.org ex: time.nist.gov |
| Sync with NTP | Every 1 hours <input type="button" value="Apply"/> |

1. Time - Manual setting : fill the assigned time and then click “Apply “ in time section
2. Current time - sync with the local PC log into 9858MT .
3. NTP Server - sync with the assigned sever and can setup the times for sync

Notice: As using NTP server, as webpage time count will be slower than the device time , please refresh the webpage or use the telnet command “ to confirm the device time.

```
IP_POWER login: admin
Password:

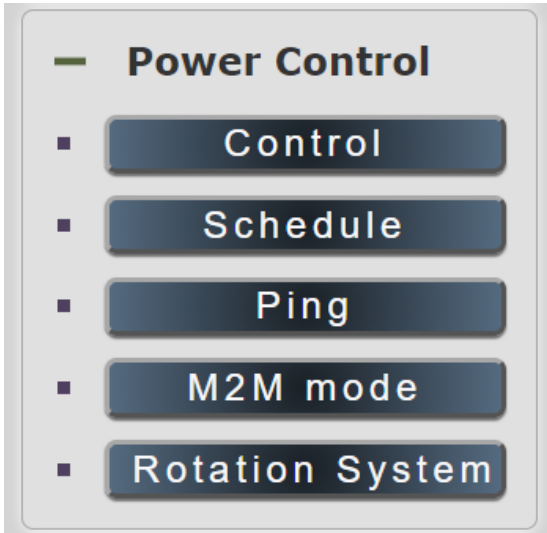
BusyBox v1.12.1 (2019-07-08 01:01:56 PDT) built-in shell (ash)
Enter 'ioctrl -h' for a list of built-in commands.

# date
Mon Oct 7 13:54:37 GMT 2019
#
```

4.2 Power Control

The IO Control Section allows you to directly / automatically control the outlets of the 9858MT as well as schedule Daily, Weekly, and Monthly power cycles.

There are 5 sections: Control , Schedule , Ping , M2M mode , Rotation System



4.2.1 Control

There are 2 setting pages in this Section. One is " Power Control " and another one is "Advance Setup "

A. Power Control :



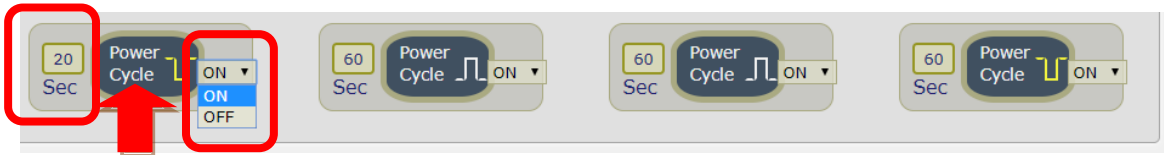
User can do the following 3 basic operation in this page :

1. Manually Control : Each port ON or OFF directly by pressing the button.

For example : The following pictures means that Power #1 & #4 is ON , Power #2 & #3 is OFF

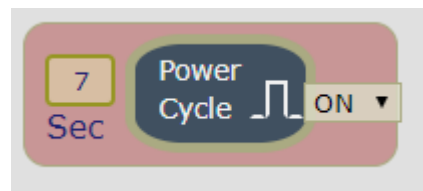
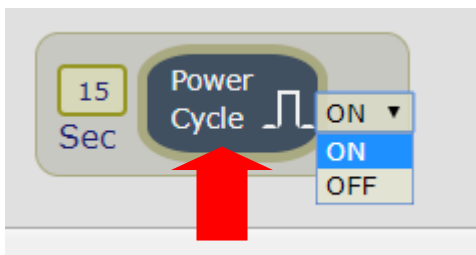


2 Power Cycle : Manually Control the relay delay some times to turn ON or OFF .
The relay cycle time can be set from 1 to 9999 seconds







- As ON, Select OFF and press "Power cycle" then the outlet status is ON → OFF.
- As ON, Select ON and press "Power cycle" then the outlet status is ON → OFF → ON.
- As OFF, Select ON and press "Power cycle" then the outlet status is OFF → ON.
- As OFF, Select OFF and press "Power cycle" then the outlet status is OFF → ON → OFF

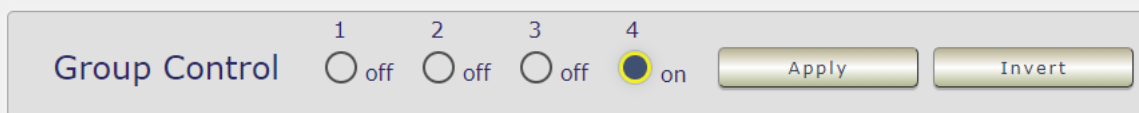
User can setup the time and the final status in power cycle as ON / OFF



For example : (sec = seconds)

| | |
|---|--|
|  | <p>Original Outlet as “ ON “ , select final status as “ OFF “ & fill 3 sec . After press “ power cycle “ button, the outlet will be ON for 3 seconds and then turn OFF .</p> <p style="text-align: center;">ON (3 sec) → OFF</p> |
|  | <p>Original Outlet as “ OFF “ , select final status as “ OFF “ & fill 15 sec . After press “ power cycle “ button, the outlet will turn ON for 8 seconds and then turn OFF .</p> <p style="text-align: center;">OFF → ON (15 sec) → OFF</p> |
|  | <p>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 .</p> <p style="text-align: center;">OFF (15 sec) → ON</p> |
|  | <p>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 .</p> <p style="text-align: center;">ON -- > OFF (10 sec) → ON</p> |

3 Group Setting : User can control more than one outlet by press the right side “Apply “ button . For safety concern , each port of 9858MT will turn ON or OFF one after one .



- Apply : Setup the ON/OFF by the buttons status .
- Inverter : Change the outlet status from ON to OFF ,or form OFF to ON by one button control.

B. Advance Setup :

In this page, user can setup Name of each port , Notification , Power interval, WOL&SOL Trigger Relay, Shutdown On LAN Settings , Wake On Lan Settings

Power Control

| Port Name Setting | | | | |
|-------------------|---------|---------|---------|--|
| Outlet1 | Outlet2 | Outlet3 | Outlet4 | |
| Jason | Tony | power3 | power4 | |

| Notification Setting | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Name | Jason | Tony | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Beep Alert | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Power Cycle Time | 60 Seconds | 60 Seconds | 60 Seconds | 60 Seconds |
| Default Power Delay <input type="checkbox"/> | 11 Seconds | 12 Seconds | 13 Seconds | 14 Seconds |
| Default Power Status | LAST | LAST | LAST | LAST |

Apply

| Power interval | |
|---------------------------------|--------------------------------|
| Enable <input type="checkbox"/> | Interval time(1~5sec) 3 Sec |

Apply

| WOL & SOL trigger Relay |
|-------------------------|
| OFF |

Apply

| Shutdown On Lan Settings | |
|--------------------------|------------|
| Name | Delay Time |
| Jason | 60 Seconds |
| Tony | 60 Seconds |
| power3 | 60 Seconds |
| power4 | 60 Seconds |

Apply

| Wake On Lan Settings | | |
|----------------------|--------------|------|
| Control Outlet | MAC | |
| Jason | 000000000000 | Send |
| Tony | 000000000000 | Send |
| power3 | 000000000000 | Send |
| power4 | 000000000000 | Send |

Apply

B.1 Name of each port

User can name each power by click the name above the power button . The number of character is max. 12 characters and Please change the name in English only and do not use symbol like !@#\$\$%^&*()_+

Note : Please change the name in English only and do not use symbol like !@#\$\$%^&*()_+

Example : Change the outlet #1 from “ power1 “ to “ server-001 “

| Port Name Setting | | | |
|-------------------|---------|---------|---------|
| Outlet1 | Outlet2 | Outlet3 | Outlet4 |
| server-001 | power2 | power3 | power4 |

Please enter Power1 name:

确定
取消

| Port Name Setting | | | |
|-------------------|---------|---------|---------|
| Outlet1 | Outlet2 | Outlet3 | Outlet4 |
| power1 | power2 | power3 | power4 |

After click confirm , the page will go to “ power control “ page to shpwthe update name.



B.2 Notification setting

User can do several notification here .

| Notification Setting | | | | |
|----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Beep Alert | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Power Cycle Time | 60 Seconds | 60 Seconds | 60 Seconds | 60 Seconds |
| Default Power Delay Enable | 11 Seconds | 12 Seconds | 13 Seconds | 14 Seconds |
| Default Power Status | ON | ON | OFF | OFF |

Apply

- Forbidden off manually : Select by port will disable the power control in webpage . The disable is for the control in webpage only .The control through HTTP command is still working .

For Example : Select the control in webpage of power 1 & power4 for be disable

| Notification Setting | | | | |
|------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

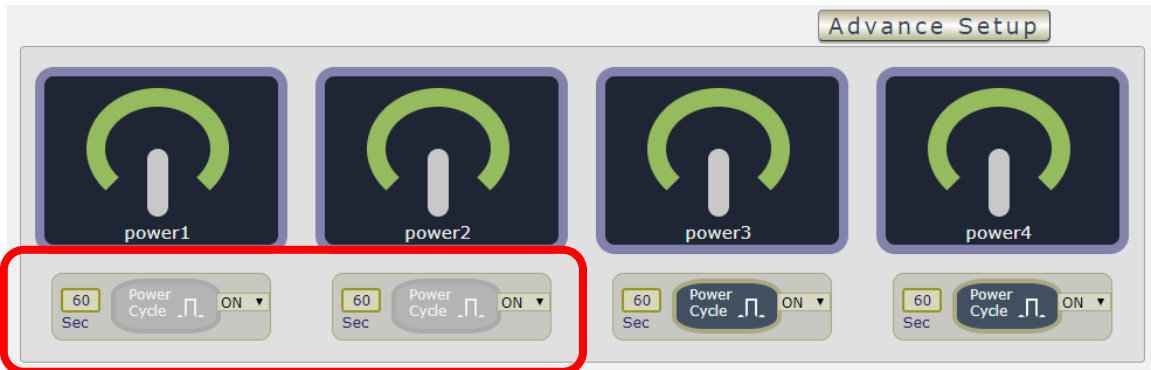
Then the page will be as following :



- Forbidden power cycle : Select by port will disable the power cycle control in webpage . The disable is for the control in webpage only .The control through HTTP command is still working .

For Example : Select the power cycle control in webpage of power 1 & power 2 for be disable

| Notification Setting | | | | |
|------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



- Email Alerts :

Use can enable /disable the e-mail alarm here .The e-mail alarm section allows 9858MT to notify user by following situation :

- Receive E-mail with IP information & MAC Address as 9858MT device boot up.
- Receive E-mail as ON/OFF status change in each output .

To get E-mail about of power status , please go to " Application → E-mail.

| Notification Setting | | | | |
|------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- Beep Alarm Setting:
User can setup the operation beep (short time beep) sound here.

| Notification Setting | | | | |
|------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Beep Alert | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

- Default Power Status : The control section allow user to set the power status on ON or OFF or LAST when the device get power rebooted . As select "Last " , the output will be at the same status ON / OFF before the device power turn off . To save the setting here , please click "Apply " button .

| Notification Setting | | | | |
|------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Beep Alert | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Default Power Status | <div style="border: 1px solid red; padding: 2px;"> LAST ▾ OFF ON LAST </div> | LAST ▾ | LAST ▾ | LAST ▾ |

Apply

B.3 Power Interval: It's the delay function which works on the ON/Off buttons for the manual control at the interface of the webpage. User can delay the action time as press the control button in webpage.

| Power Interval | |
|--------------------------|-----------------------|
| Enable | Interval time(1~5sec) |
| <input type="checkbox"/> | 3 sec |

Apply

B.4 WOL&SOL: Trigger Relay: When you enable the WOL function, turn the Trigger Relay on will connect the WOL and SOL function.

| WOL & SOL trigger Relay |
|-------------------------|
| OFF ▾ |

Apply

B.5 Shutdown On Lan Settings :

| Shutdown On Lan Settings | | | | |
|--------------------------|------------|------------|------------|------------|
| Name | power1 | power2 | power3 | power4 |
| Delay Time | 60 Seconds | 60 Seconds | 60 Seconds | 60 Seconds |

9858MT can be used to safely turn off the **WINDOWS or LINUX** system through Network. With this feature you can remotely shutdown any system which that is connected to the IP Power 9858MT through normal Windows / LINUX shut down procedure. Before operating the software shutdown function it is essential to install our software.

If you are requiring to use this function, please contact with the seller, and will provide the file to install.

File name: Shutdown_On_LAN

NOTE : The delay time setup in this section is for “ Shutdown ON LAN “ procedure .
Not for outlet ON/OFF function

B.6 Wake on Lan settings :

This is a application for PC / Server / Main board which had been enable the “ WAKE ON LAN “ function in own setting . User need to know the MAC address of the PC /Server to do the wake up on LAN function .

| Wake On Lan Settings | | |
|----------------------|--------------|-------------------------------------|
| Control Outlet | MAC | |
| power1 | 000000000000 | <input type="button" value="Send"/> |
| power2 | 000000000000 | <input type="button" value="Send"/> |
| power3 | 000000000000 | <input type="button" value="Send"/> |
| power4 | 000000000000 | <input type="button" value="Send"/> |

Duration Mode Once Every Week Every Day

Date: From to

Time : : (Hr:Min:Sec)

Schedule power action Schedule Power Rotation

| | | | |
|---|---|---|---|
| Jason <input checked="" type="checkbox"/> | Tony <input checked="" type="checkbox"/> | power3 <input checked="" type="checkbox"/> | power4 <input checked="" type="checkbox"/> |
| <input type="text" value="OFF"/> <input type="button" value="v"/> OFF ON CYCLE WOL SOL Reboot | <input type="text" value="OFF"/> <input type="button" value="v"/> | <input type="text" value="OFF"/> <input type="button" value="v"/> | <input type="text" value="OFF"/> <input type="button" value="v"/> |

Ping List

| Global Ping Base Setting | | | |
|--------------------------------------|--------|-------------------------|----------------|
| Ping Interval | 5 Sec. | Response Time Out | 900 ms. |
| Ping After Action Delay | 5 Sec. | Action Max repeat times | 1 (0=non stop) |
| <input type="button" value="Apply"/> | | | |

Conditional Mode Single OR And

| IP & Host Name | Failed times then action | Repeat |
|---|--------------------------|--------|
| www.baidu.com <input type="button" value="Check"/> | 03 | Stop |
| www.google.com <input type="button" value="Check"/> | 03 | |
| www.yahoo.com <input type="button" value="Check"/> | 03 | |
| www.sony.com <input type="button" value="Check"/> | 03 | |

Ping failure action Jason Tony power3 power4

WOL=Wake-On-Lan, SOL=Shutdown-On-Lan

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 :

Please click the button to switch between “ Schedule Setting “ & “ Schedule list “ :

WOL=Wake-On-Lan, SOL=Shutdown-On-Lan

No.1 On 0000/00/00

Schedule
Action at 00:00:00

1 Duration Mode Once Every Week Every Day

The schedule allows you to control the power outlet or turn ON / OFF/ RESET at assigned time

- Adding a Scheduled Event

1. Select the Action Duration :

There are 3 setting - Once , Every Day . Every Week

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

1 Duration Mode Once Every Week Every Day

Weekly select:
 Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Date: From to

Time 00

Schedule

| Jan 2018 | | | | | | | February 2018 | | | | | | | March 2018 | | | | | | |
|----------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|------------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | | 1 | 2 | 3 | | | | | 1 | 2 | 3 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 28 | 29 | 30 | 31 | | | | 25 | 26 | 27 | 28 | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

3. Select the Time Period.
4. Choose the Action : Enable power # by clicking in the small square to mark “ v “ , and select one from the power action of OFF/ON/RESET as you need.

Schedule power action Schedule Power

Jason

- OFF
- ON
- OFF
- CYCLE
- WOL
- SOL
- Reboot

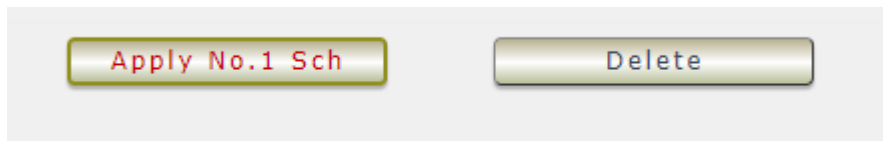
Once the scheduler has been Set Up , hit the “ ADD No.:X Power Schedule “ button and you will see your setting located on the button of the Action section .

Schedule Setting

WOL=Wake-On-Lan, SOL=Shutdown-On-Lan

| | | | | | | |
|------|----------------------------------|--------------------------------------|------------------|---------------|----------------|----------|
| No.1 | From 2018/02/01 To 2018/02/28 | Daily Schedule Action at 00:00:00 | Relay CYCLE 1 | Relay On 2 | Relay Off 3 | SOL 4 |
| No.2 | On 0000/00/00 | Schedule Action at 00:00:00 | | | | |

- **Apply / Edit a Schedule Event :**



Please select the Rule you want to edit in Scheduler Table. , Change the setting like Duration , Date , Time and Action. Then Press “Apply Np. X Sch “ button to confirm the setting and you will see the page refresh and new setting display in Scheduler list

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

Rotation Start/Stop:

In the function of the Power Rotation. User can setup a certain time to do this Power Rotation. User can set up a time to start the rotation but need to set another time to stop the rotation

Rotation Start :

A screenshot of the 'Rotation Start' configuration interface. At the top right is a 'Schedule List' button. Below it is a dark bar with '1' in a circle, 'Duration Mode', and radio buttons for 'Once', 'Every Week' (selected), and 'Every Day'. Underneath is a 'Weekly select:' section with checkboxes for 'Sunday' (checked), 'Monday' (checked), 'Tuesday', 'Wednesday' (checked), 'Thursday', 'Friday', and 'Saturday'. The 'Date:' field shows 'From 2022/06/01' and 'to 2022/07/04'. The 'Time' field is set to '17 : 18 : 17 (Hr:Min:Sec)'. Below this is a 'Schedule power action' section with a checkbox for 'Schedule Power Roation' and a dropdown menu set to 'Roation-Start'. Underneath are 'ON Period 1 min' and 'Interval 1 min' fields. A note at the bottom says 'Repeat the mutichannel powe cycling in order during the specified period'. Red arrows point to the 'Time' and 'Roation-Start' dropdown.

Rotation Stop:

A screenshot of the 'Rotation Stop' configuration interface. The 'Date:' field shows 'From 2022/06/01' and 'to 2022/07/04'. The 'Time' field is set to '17 : 18 : 17 (Hr:Min:Sec)'. Below this is a 'Schedule power action' section with a checkbox for 'Schedule Power Roation' and a dropdown menu set to 'Roation-Stop'. A red arrow points to the 'Roation-Stop' dropdown.

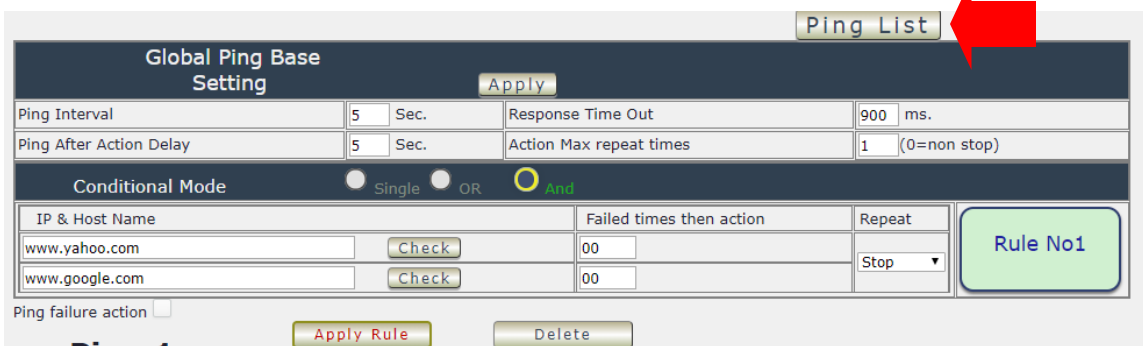
4.2.3 Ping

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 “ . User can hide the setting section by press “ Ping List “ . There are 4 rules for Ping only, each rule can setup 1~4 outlets.

- Ping List Page :



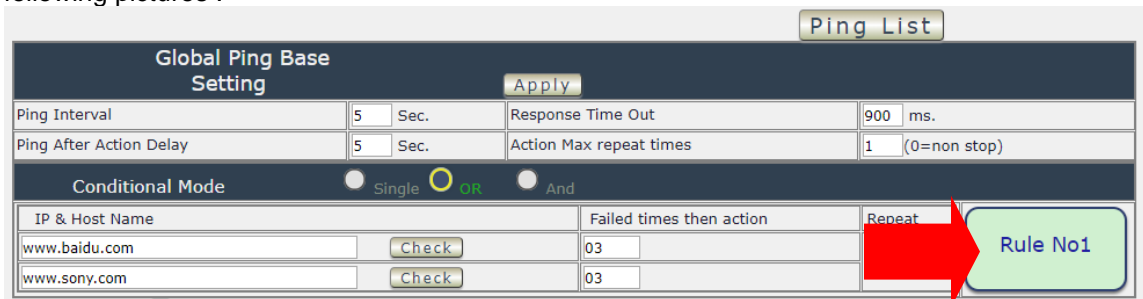
- Ping Setting Page :



There are 3 sections of the setting area :

1. Setting Rule Numbers :

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



2. Ping Base Setting :

| Global Ping Base Setting | | | |
|--------------------------|--------|-------------------------|----------------|
| Ping Interval | 5 Sec. | Response Time Out | 900 ms. |
| Ping After Action Delay | 5 Sec. | Action Max repeat times | 1 (0=non stop) |

- Ping Interval : The number of seconds (Sec.) between each ping .
- Respond Time Out : The number of 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 : After ping finished , do the action after setting seconds (Sec.)
- Action Max. repeat times : Set the times to execute the Ping Failure action
Set 0 means action non stop - Keep action & no limit times.

As setting finished , please click “ Apply “ to save the setting in this area , the webpage will refresh and user can see the final setting result. Ten different set up rules for different port .

3. Other Setting :

The setting here is for each rule .

| Conditional Mode | | | |
|--|--------------------------|---------------------------------------|----------|
| <input type="radio"/> Single <input type="radio"/> OR <input checked="" type="radio"/> And | | | |
| IP & Host Name | Failed times then action | Repeat | Rule No1 |
| www.yahoo.com <input type="button" value="Check"/> | 00 | Stop | |
| www.google.com <input type="button" value="Check"/> | 00 | | |
| Ping failure action <input type="checkbox"/> | | | |
| <input type="button" value="Apply Rule"/> | | <input type="button" value="Delete"/> | |

● Logic Mode :

User can select the action activate by one / two IP Host failure or either one fail

- Single : Execute Action by one IP Host failure .
- OR : Execute Action by either one IP Host failure as setting 2 pcs IP Host
- And : Execute Action by both IP Host failure as setting 2 pcs IP Host

Single : 9858MT will Ping one IP address. As the IP fail times reach to the setting times . Action (ON/OFF/RESET) will be activated .

| Conditional Mode | | | |
|--|--------------------------|---------------------------------------|----------|
| <input checked="" type="radio"/> Single <input type="radio"/> OR <input type="radio"/> And | | | |
| IP & Host Name | Failed times then action | Repeat | Rule No1 |
| www.google.com <input type="button" value="Check"/> | 03 | Stop | |
| Ping failure action <input type="checkbox"/> | | | |
| <input type="button" value="Apply Rule"/> | | <input type="button" value="Delete"/> | |

Ping 1

WOL=Wake-On-Lan, SOL=Shutdown-On-Lan

```

graph LR
    Start[No.1 Ping every 5sec] --> Baidu[www.baidu.com]
    Start --> Sony[www.sony.com]
    Baidu --> BaiduTO[0.9sec Timeout Ping 3 times]
    Sony --> SonyTO[0.9sec Timeout Ping 3 times]
    BaiduTO --> EitherFail[Either Fail]
    SonyTO --> EitherFail
    EitherFail --> Steps[1 2 3 4]
    Steps --> Repeat[Repeat 1Times after 5sec]
  
```


OR : 9858MT will Ping 2 IP address. Either one IP fail times reach to the setting times.
Action (ON/OFF/RESET) will be activated .

AND : 9858MT will Ping 2 IP address. Both IP fail reach to the setting times.
Action (ON/OFF/RESET) will be activated.

| IP & Host Name | Failed times then action | Repeat |
|----------------|--------------------------|----------|
| www.google.com | 03 | Continue |
| www.sony.com | 03 | Stop |

Ping failure action

Jason Relay-OFF

tony Relay-OFF

power3 Relay-OFF

power4 Relay-OFF

Ping 1 Apply Rule Delete

- 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** “ button to check the address valid or not
- Failed times then action : Setup the ping failure times for 9858MT 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) .
- Enable Ping function : 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 .
- Ping failure action :

When the number of Ping Failures times have been reached. The device can be set to “ ON , OFF or Reset “ function

Reset: Can set up the time gap from OFF to ON. The “ Sec “ section is for action as Reset only.

Ping failure action

Jason ON

Tony OFF

power3 OFF

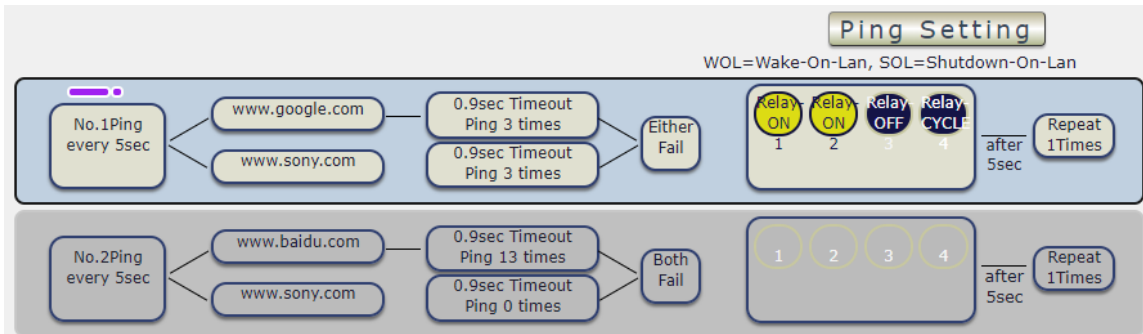
power4 CYCLE 000 sec.

Apply Rule Delete

WOL=Wake-On-Lan, SOL=Shutdown-On-Lan

- ON
 - OFF
 - Cycle: It means outlets turn OFF to ON
 - WOL: Wake On Lan
 - SOL: Shutdown On Lan
 - Relink: It means to reconnect the network. If the setting is DHCP, 9858MT may get a new IP address as reconnect to the router.
- > P.S: If the network connection is not stable or change it's IP on internet frequently, we suggest to enable this function to Ping the 4G router. 9858MT will relink the network as there is no ping reply from the network.

The setting times range is 1 to 999 sec.



Select the number of Ping Failures that user prefer to do before the action is activated.

EX: Result of setting

4.2.4 M2M mode

- This is a function to control another 9858MT automatically . There are two directions : Control in LAN or Control through Internet – MQTT

1.M2M- Local (LAN) :

In this function , device B is a SLAVE device . User need to select enable , filled the IP address and login information of the HOST / Master device.

The 'MQTT M2M(LAN) Setting' form includes the following fields:

| | |
|----------|--------------------------|
| Enable | <input type="checkbox"/> |
| Host | <input type="text"/> |
| Port | 80 |
| User | admin |
| Password | |

An 'Apply' button is located at the bottom of the form.

- For example :

One 9858MT name device A (IP : 10.33.122.50) , another 9858MT name device B (10.33.122.28) .

- In the webpage of device B , we enable the function , set up the IP and the login username and password of device A (as HOST) .
- As we setup the outlet # 1 of device A as ON , then the outlet #1 of device B will turn ON.
- As we setup the outlet # 2 of device A as OFF , then the outlet #2 of device B will turn OFF too.

- Before you setting M2M. please open two device webpage and enable the setting at the same time, if you only setting device A to enable M2M, device B won't follow device A action until both device have set M2M enable.

Notice : User can set device A to control B and also device B to control A , then the two devices will be auto control of each other .

2.M2M-MQTT (Internet) :

- To use this function , user need to enable the CNT(MQTT) function (register to Aviosys MQTT HOST). In this function , device B is a MASTER device . User need to select enable, filled the MAC address and login information of the SLAVE device .

The screenshot shows the 'M2M(LAN) Setting' interface. At the top right, there is a yellow button labeled 'MQTT'. A red arrow points from this button to the 'M2M(LAN) Setting' form. The form contains the following fields:

| | |
|----------|--------------------------|
| Enable | <input type="checkbox"/> |
| Host | <input type="text"/> |
| Port | 80 |
| User | admin |
| Password | ***** |

At the bottom of the form is an 'Apply' button.

The screenshot shows two interfaces. The top one is 'M2M(Internet) Setting' with a 'Local' button on the right. Below it is the 'Controlled Device Setting' interface. A red arrow points down from the 'MQTT' button in the previous screenshot to the 'M2M(Internet) Setting' interface.

M2M(Internet) Setting

MQTT M2M Enable

Controlled Device Setting

| MAC | User | Password | |
|---|------------------------------------|------------------------------------|-------------------------------------|
| <input type="text" value="007623000310"/> | <input type="text" value="admin"/> | <input type="text" value="*****"/> | <input type="button" value="Test"/> |

At the bottom of the 'Controlled Device Setting' interface is an 'Apply' button.

- Before setting the MQTT, click the the IP service in Application, and you will see the “ CNT(MQTT) Setting (Remote control) “, follow the red button to click the enable function, then choose the IPPower option in MQTT Service. After the setting, click the apply and the MQTT function will be enable.

Notice: All the IP device want to connect each other through MQTT must get this procedure.

The screenshot shows the 'IP Service Setting (Search)' and 'CNT(MQTT) Setting (Remote control)' interfaces. A red arrow points to the 'MQTT Service' dropdown menu in the 'CNT(MQTT) Setting' interface.

IP Service Setting (Search)

Enable

IP Service Server :

Device Name :

Country :

City :

myipedit login Account

Find IPPOWER 9858 device on myipedit.com

CNT(MQTT) Setting (Remote control)

MQTT Service

Enable

Status

- Setting the MQTT:

M2M machine outputs are corresponding to another machine outputs

Local

M2M(Internet) Setting

MQTT M2M Enable

Controlled Device Setting

| MAC | User | Password | |
|---|------------------------------------|------------------------------------|-------------|
| <input type="text" value="007623000310"/> | <input type="text" value="admin"/> | <input type="text" value="....."/> | <i>Test</i> |

Apply

- Click the button in MQTT M2M Enable.
- In Controlled Device Setting, type the Device MAC you want to connect with. We recommend not to change the user and password in the first, then click apply, the other device connect the device you are setting.
- For example : one 9858MT name device A (MAC : 007623000310) , another 9858MT name device B (MAC : 007650002DF8, IP - 10.33.122.28)
 - In the webpage of device B , we enable the function , set up the IP and the login username and password of device A (as SLAVE) .
 - As we setup the outlet # 1 of device B as ON , then the outlet #1 of device A will turn ON too
 - As we setup the outlet # 2 of device B as OFF , then the outlet #2 of device A will turn OFF too

Notice : 1. User can set device A to control B and also device B to control A , then the two devices will be auto control of each other .

4.2.5 Rotation system

- It is a inquire function by specific application, for those who want to test with their system, and need such function to check their device status.

Multi-rail power rotation mode.

| Rotation System Settings | |
|--------------------------|----------------------------|
| Enable | <input type="checkbox"/> |
| ON Period | 1 <input type="text"/> min |
| Interval | 1 <input type="text"/> min |

- Enable : Enable the rotation function
- On Period minute (from 1 up to 999999999999 minutes)
- Interval: minute (from 1 up to 999999999999 minutes)

As user set : enable , on period as 1 min and interval as 2 min ,

The 4 outlets will work automatically as following sequence:

The Outlet #1 turn ON for 1 min only and then turn off for 2 min , then the Outlet #2 turn ON for 1 min only and then turn off for 2 min , then the Outlet #3 turn ON for 1 min only and then turn off for 2 min , then the Outlet #4 turn ON for 1 min only and then turn off for 2 min , then back to outlet 1 (the first line action) .

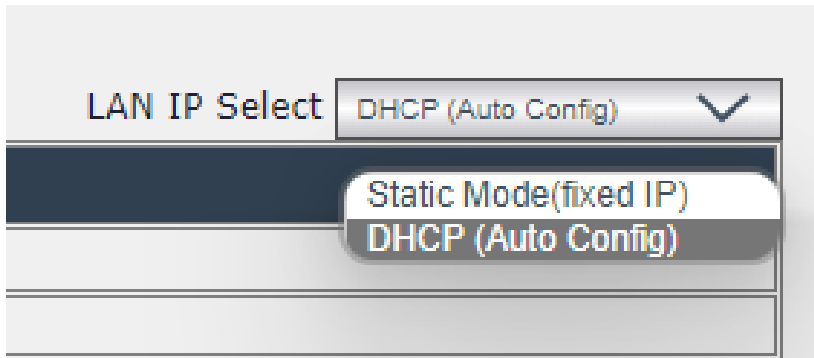
The above action sequence will keep rotation at outlet 1 2 3 4.

4.3 Network

There are 3 sections in this port: LAN Network, DNS setting and Port setting

LAN Network Settings :

The network status is connected by ether cable with RJ45 connector. There are 2 network connection way : Static IP / DHCP

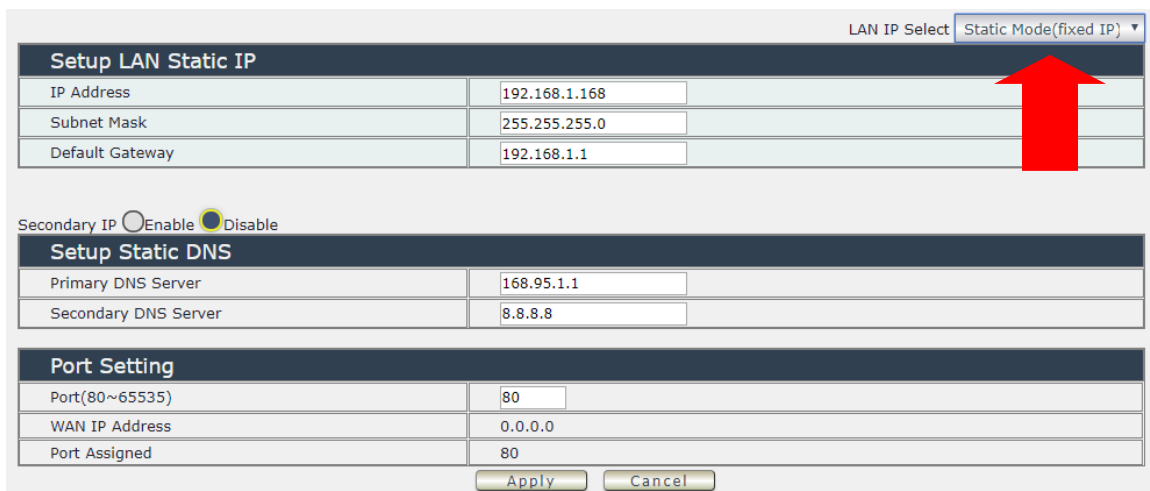


A. STATIC (fixed IP)

Setup IP address , DNS and Port manually. This allows the 9858MT to obtain an IP Address automatically from user's server connected to Internet. Recommended for users who need to control through Internet.

Please do fill up the correct gateway / port for login from Internet .

Please do fill up the correct DNS server for sending / receiving email (alarm) .



The image shows the "LAN Network Settings" configuration page. The "LAN IP Select" dropdown is set to "Static Mode(fixed IP)". A red arrow points to this dropdown. The page is divided into three sections: "Setup LAN Static IP", "Setup Static DNS", and "Port Setting".

| Setup LAN Static IP | |
|---------------------|---------------|
| IP Address | 192.168.1.168 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 192.168.1.1 |

Secondary IP Enable Disable

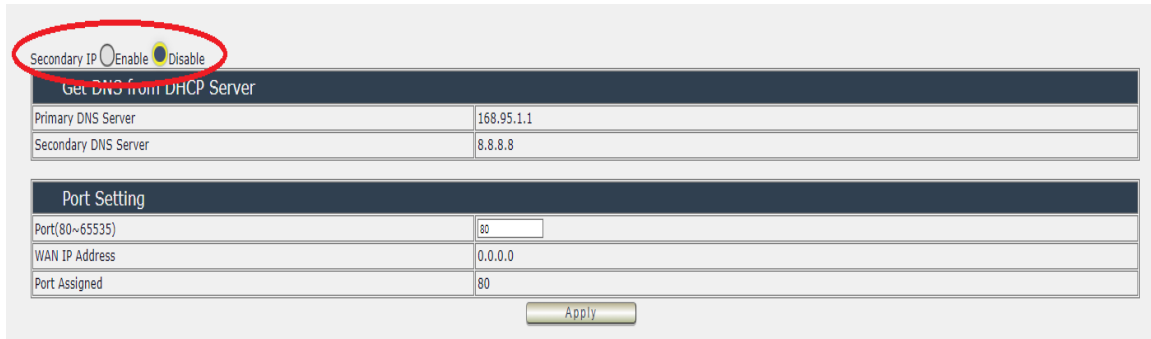
| Setup Static DNS | |
|----------------------|------------|
| Primary DNS Server | 168.95.1.1 |
| Secondary DNS Server | 8.8.8.8 |

| Port Setting | |
|----------------|---------|
| Port(80~65535) | 80 |
| WAN IP Address | 0.0.0.0 |
| Port Assigned | 80 |

Apply Cancel

Secondary IP:

This function like a “ backdoor ”. If the user forget the IP address, they can log in through this IP as it enable.



Secondary IP Enable Disable

Get DNS from DHCP Server

| | |
|----------------------|------------|
| Primary DNS Server | 168.95.1.1 |
| Secondary DNS Server | 8.8.8.8 |

Port Setting

| | |
|----------------|---------|
| Port(80~65535) | 80 |
| WAN IP Address | 0.0.0.0 |
| Port Assigned | 80 |

Apply

B. DHCP Mode

Obtain IP address via DHCP mode . setup the DNS and port

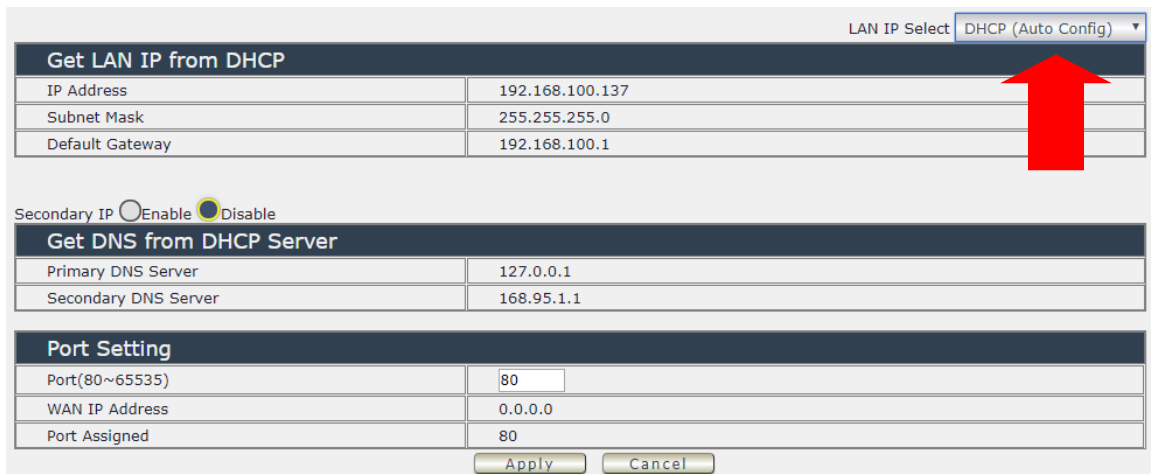
This allows the 9858MT to obtain an IP Address automatically from user`s server connected to Internet. Recommended for non- advance users.

User can only revise the Host Name under DHCP mode. This is also the default setting for fast LAN connection solution.

As the IP from DHCP Service of user`s router will be changed by router . 9858MT will remember last IP of 9858MT assigned by user`s router in “Last DHCP state “ for information.

Please do fill up the correct gateway / port for login from Internet .

Please do fill up the correct DNS server for sending / receiving email (alarm) .



LAN IP Select DHCP (Auto Config)

Get LAN IP from DHCP

| | |
|-----------------|-----------------|
| IP Address | 192.168.100.137 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 192.168.100.1 |

Secondary IP Enable Disable

Get DNS from DHCP Server

| | |
|----------------------|------------|
| Primary DNS Server | 127.0.0.1 |
| Secondary DNS Server | 168.95.1.1 |

Port Setting

| | |
|----------------|---------|
| Port(80~65535) | 80 |
| WAN IP Address | 0.0.0.0 |
| Port Assigned | 80 |

Apply Cancel

C. PPTP

Enable your PPTP first, and setting your IP address, User name password, then click the apply to activate the PPTP mode

| PPTP Mode | |
|------------------------|---|
| PPTP | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| Pptp Server IP Address | <input type="text" value="pptp_server"/> |
| User Name | <input type="text" value="pptp_user"/> |
| Password | <input type="password" value="....."/> |
| VPN IP Address | <input type="text" value="0.0.0.0"/> |

Apply

D. UPNP

With UPNP function , user can log in webpage through Internet without setting Port forwarding / port mapping in your router . No matter use “ FIX IP “ or “ DHCP” , user can enable this UPNP function .

Notice : It support to pass through one router and may not work as 9858MT under multiple routers.

| Port Setting | |
|----------------|--------------------------------------|
| Port(80~65535) | <input type="text" value="80"/> |
| WAN IP Address | <input type="text" value="0.0.0.0"/> |
| Port Assigned | <input type="text" value="80"/> |

Apply Cancel

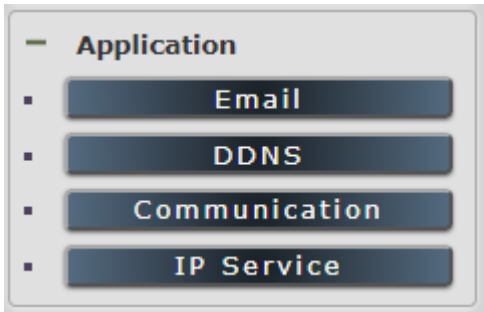
| UPNP | |
|--------|---|
| Enable | <input type="checkbox"/> |
| Port | <input type="text" value="44615"/> (81~65535) |

Apply

Please do fill up the correct gateway / port for login from Internet .

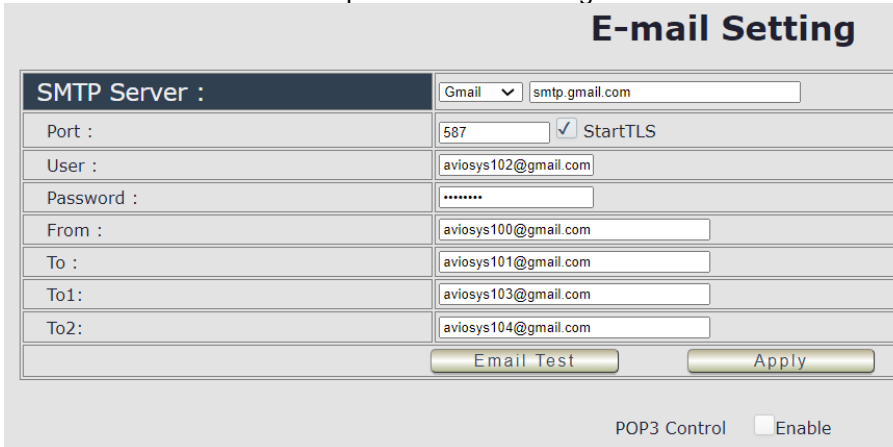
Please do fill up the correct DNS server for sending / receiving email (alarm) .

4.4 Application Settings



4.4.1 Email

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



The screenshot shows the "E-mail Setting" configuration page. It includes a table for SMTP settings and a checkbox for POP3 Control.

| E-mail Setting | |
|--|--|
| SMTP Server : | Gmail smtp.gmail.com |
| Port : | 587 <input checked="" type="checkbox"/> StartTLS |
| User : | aviosys102@gmail.com |
| Password : | ***** |
| From : | aviosys100@gmail.com |
| To : | aviosys101@gmail.com |
| To1: | aviosys103@gmail.com |
| To2: | aviosys104@gmail.com |
| <input type="button" value="Email Test"/> <input type="button" value="Apply"/> | |
| POP3 Control <input type="checkbox"/> Enable | |

● Email Setting :

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

- Receive E-mail with IP information & MAC Address as 9858MT device boot up.
- Receive E-mail as ON/OFF status change in each output .

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

The 9858MT allows user to send from public e-mail account , such as @gmail or @hotmail or @yahoo.com

- **SMTP Server:** This is the mail server of sender .

If user select @gmail or @hotmail account as SMTP Server , 9858MT will fill the SSL & Port automatically

- **Port** : This is the port of SMTP Server. Most common port to send out e-mail is port 25
- **Start TLS** : It depends on the inquire of the email server to enable or disable this inquire .
As use Gmail account , please enable this function .
- **User** : Login for the e-mail address . Ex: 9858MT@gmail.com
- **Password**: Password for the e-mail address. EX : 12345678
- **From** : Mail sender address to send the E-Mail out . Ex.: 9858MT@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 .

For example :

1. Get Email alarm as outlet changed :

| Notification Setting | | | | |
|----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Name | power1 | power2 | power3 | power4 |
| Forbidden off manually | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Forbidden Power cycle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Email Alerts | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Beep Alert | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Power Cycle Time | 60 Seconds | 60 Seconds | 60 Seconds | 60 Seconds |
| Default Power Delay Enable | 11 Seconds | 12 Seconds | 13 Seconds | 14 Seconds |
| Default Power Status | ON | ON | OFF | OFF |

● 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.

POP3 Control Enable

POP3 Server : Gmail | pop.gmail.com

From : aviosys@gmail.com

Port : 110

User : aviosys1

Password :

Tag : Test

Interval(Minute) : 2

Mail Number : 100

CTRL Format : Subject Body

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

Settings Section :

To set up 9858MT 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 , 9858MT will fill the SSL & Port automatically.

- **User :** Username 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 9858MT to recognize this mail as 9858MT 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 9858MT to search as command mail in the number of your email receiver latest . EX. : setup 20 that 9858MT will check the latest 20pcs email in receivers mail box for the 9858MT 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
- Username to log in sender`s @gmail : 123@gmail.com or abc@def.com
- Password to log in sender`s @gmail : 12345678

Command format & Example :

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 :

CTRL Format : Subject Body

Apply

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

Submit



IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF - Message (HTML)

Message Insert Options Format Text

新細明體 12 A A

Address Book Check Names Attach File Attach Item Business Card Calendar Signature Follow Up Permission High Import Low Import

To... aviosys@gmail.com

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

Command format :

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

There are 2 section 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 :

- Execute e-mail command by " Subject "

The screenshot shows the 'CTRL Format' interface. At the top, there are two radio buttons: 'Subject' (which is selected and highlighted with a red box) and 'Body'. Below the radio buttons is an 'Apply' button. The main area contains an 'Example:' section with an 'E-Mail Test:' label and a text input field containing 'yourmail'. Below this, the 'Subject:' field is highlighted with a red box and contains the text: 'IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF'. The 'Body:' field is empty.

- Execute e-mail command by " Body "

The screenshot shows the 'CTRL Format' interface. At the top, there are two radio buttons: 'Subject' and 'Body' (which is selected and highlighted with a red box). Below the radio buttons is an 'Apply' button. The main area contains an 'Example:' section with an 'E-Mail Test:' label and a text input field containing 'yourmail'. Below this, the 'Body:' field is highlighted with a red box and contains the text: 'IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF'. The 'Subject:' field is empty. At the bottom of the interface is a 'Submit' button.

4.4.2 DDNS

The DDNS section allows user to setup the 9858MT with a DDNS server (i.e. www.dyndns.com). After the server has been setup correctly, enter the necessary information into the 9858MT DDNS settings.

Note: The DNS server will have extra change as apply new account.

DDNS

DDNS Setting

| | |
|--------------------|---|
| Enable | <input type="checkbox"/> |
| Service Provider : | None <input type="button" value="v"/> |
| Account : | None |
| Password : | Dyndns.org freedns.afraid.org www.zoneedit.com www.no-ip.com |
| Domain Name : | <input type="text"/> |

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

4.4.3 Communication

9858MT supports SNMP, Telnet , Modbus TCP and BACnet TCP

Communication Setting:

SNMP:

| | |
|-------------------------|---------------------------------------|
| Enable | <input type="checkbox"/> |
| SNMP version: | 1.2c <input type="button" value="v"/> |
| Community Authority : | 1NA <input type="button" value="v"/> |
| Community Name : | private <input type="text"/> |
| Trap type : | 1NA <input type="button" value="v"/> |
| Host(192.168.1.1:162) : | 192.168.1.1:162 <input type="text"/> |
| Trap Community : | private <input type="text"/> |
| MIB file | JPPOWER-MIB.txt |

TELNET:

| | |
|---------|--------------------------------------|
| Enable | <input checked="" type="checkbox"/> |
| SSH | <input checked="" type="checkbox"/> |
| SSH-KEY | <input type="button" value="Renew"/> |

TCP Modbus

| | |
|---------------|--------------------------|
| Modbus Enable | <input type="checkbox"/> |
| Port | 502 <input type="text"/> |

BACnet

| | |
|--------|----------------------------|
| Enable | <input type="checkbox"/> |
| Port | 47308 <input type="text"/> |

A.SNMP

This section is for development of system integrator who is familiar with SNMP knowledge. In community Authority , user can select “ Read only ” or “Read / Write”

Communication Setting:

| SNMP: | |
|--------------------------------------|---------------------------------|
| Enable | <input type="checkbox"/> |
| SNMP version: | 1,2c ▾ |
| Community Authority : | N/A ▾ |
| Community Name : | N/A Read Only Read/Write |
| Trap type : | |
| Host(192.168.1.1:162) : | 192.168.1.1:162 |
| Trap Community : | private |
| MIB file | IPPOWER-MIB.txt |
| <input type="button" value="Apply"/> | |

In “ Trap “ type ,user can select “ v1 trap “ , “ v2c trap “ or “ v2c inform”

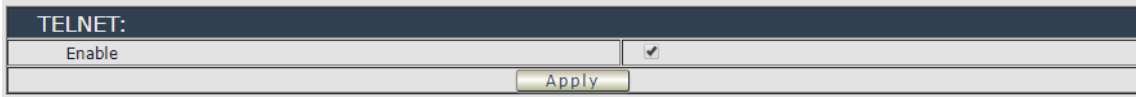
Communication Setting:

| SNMP: | |
|--------------------------------------|--|
| Enable | <input type="checkbox"/> |
| SNMP version: | 1,2c ▾ |
| Community Authority : | N/A ▾ |
| Community Name : | private |
| Trap type : | N/A ▾ v1 trap v2c trap v2c inform |
| Host(192.168.1.1:162) : | 192.168.1.1:162 |
| Trap Community : | |
| MIB file | IPPOWER-MIB.txt |
| <input type="button" value="Apply"/> | |

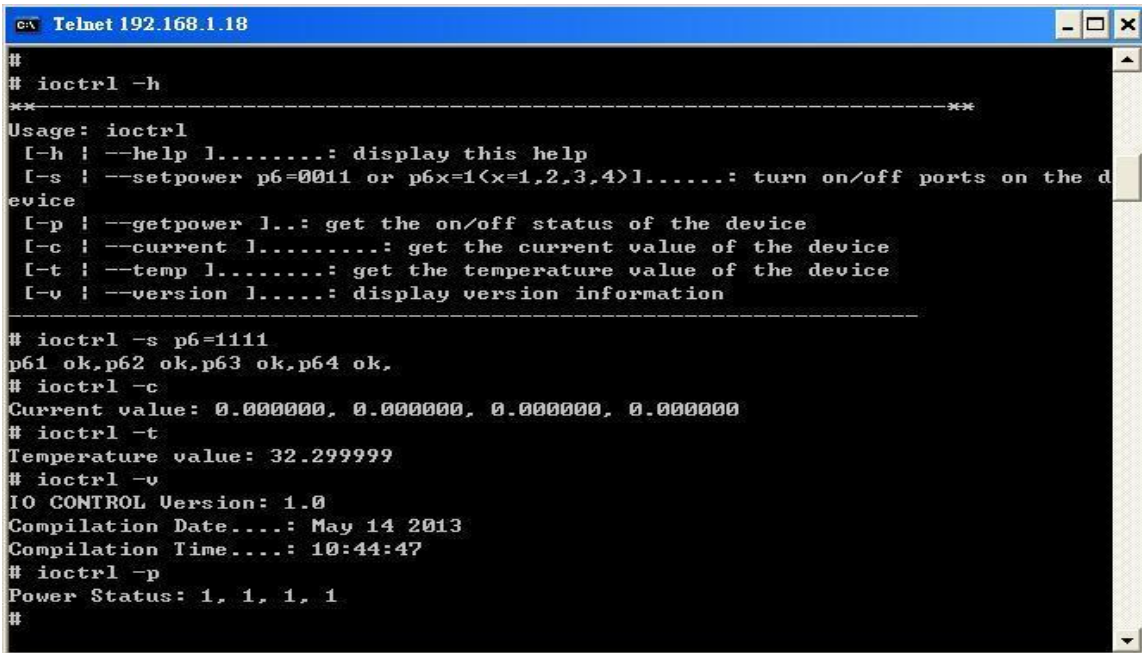
In MIB file section , user can get MIB information.

B. Telnet

In This section is for development of system integrator who is familiar with Telnet to enable /disable the



Please enable the telnet function in “Application “ → “ Communication “



Notice: The command “ -C “ & “ -T “ are for models 9820 & 9828 only.

C =Current . T =Temperature

C. Modbus TCP

A. **Modbus:** We supply the TCP models of ModBus control

| TCP Modbus | |
|--------------------------------------|--------------------------|
| Modbus Enable | <input type="checkbox"/> |
| Port | 502 |
| <input type="button" value="Apply"/> | |

D. BACnet TCP

In this section is for development of system integrator who is familiar with Telnet to enable / disable the function and to setup it's port .

| BACnet -Beta | |
|--------------------------------------|--------------------------|
| Enable | <input type="checkbox"/> |
| Port | 47808 |
| <input type="button" value="Apply"/> | |

4.4.4. IP SERVICE

In this section , user can setup

- A. IP Server & CNT (Cross Network Technology) ,
- B. CNT (MQTT)

| IP Service Setting (Search) | |
|--|--------------------------|
| Enable | <input type="checkbox"/> |
| IP Service Server : | Server1 ▾ |
| Device Name : | IP_POWER |
| Country : | Country |
| City : | City |
| myipedit login Account | |
| Find IP_POWER device on myipedit.com | |
| <input type="button" value="Apply"/> | |

| CNT(MQTT) Setting (Remote control) | |
|--------------------------------------|--------------------------|
| MQTT Service | IPPower ▾ |
| Enable | <input type="checkbox"/> |
| Status | |
| <input type="button" value="Apply"/> | |

A. IP Service & CNT Setting :

The IP SERVICE allow 9858MT to be accessed easily on the internet by our IP Power Center or IP EDIT. With this feature anyone can find its device with no problems.

IP Service Server: Allows user can find user of 9858MT on the internet without having to remember long IP Addresses. Instead user can just remember the name of user device.

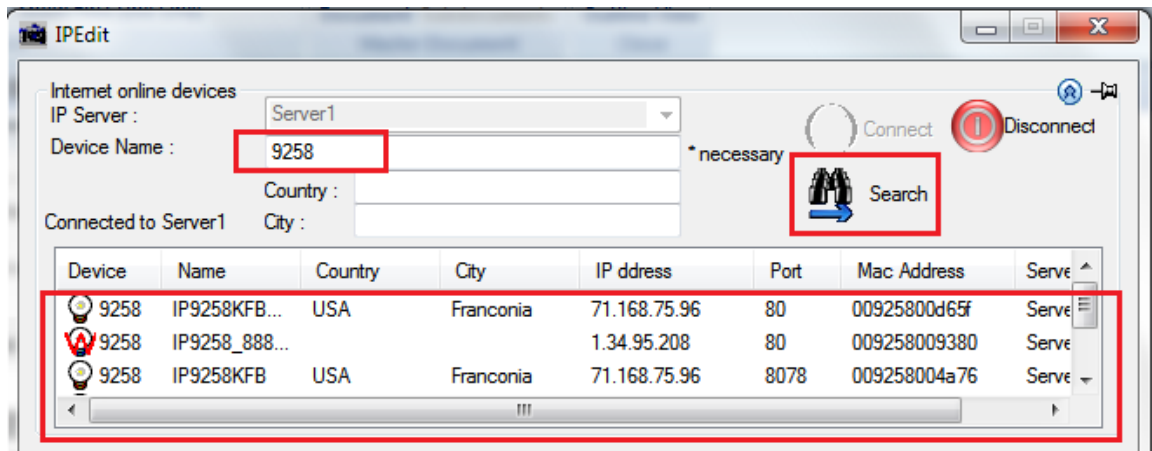
| IP Service Setting (Search) | |
|---|--|
| Enable | <input type="checkbox"/> |
| IP Service Server : | Server1 ▾ |
| Device Name : | Server1 Custom <input type="text"/> |
| Country : | Country <input type="text"/> |
| City : | City <input type="text"/> |
| myipedit login Account | <input type="text"/> |
| Find IP_POWER device on myipedit.com | |
| <input type="button" value="Apply"/> | |

- Enable : Enable or Disable this function by clicking the small box .
- IP Service Server : use our server or custom server .
- Device name , Country & City :

User can search the 9858MT by Device name , Country or City.

This allows the device to be accessed easily 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 #14 for the function of IP Server

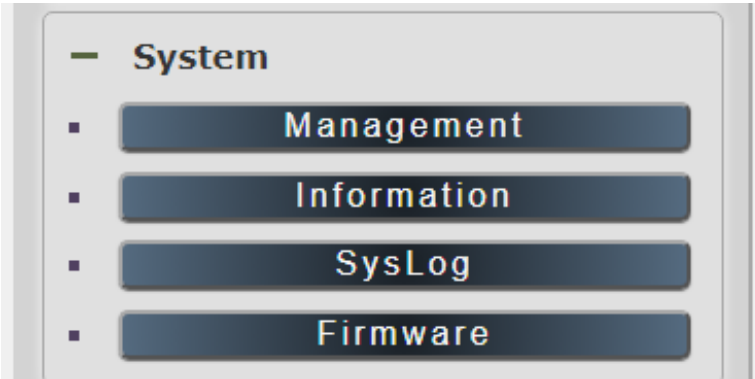


B. CNT (MQTT)–

For developing only. 9858MT supports MQTT function. Please contact with your distributor for the details if you would like to develop own system.

| CNT(MQTT) Setting (Remote control) | |
|------------------------------------|-----------|
| MQTT Service | IPPower ▾ |
| Enable | IPPower |
| Status | Custom |
| | Google |
| | Azure |
| | AWS |
| | Apply |

4.5 System Setting



4.5.1 Management

In this section there are 6 settings: Administrator setting, Language Settings, Web server Setting, NTP settings , Import Configuration files and System Reset.

System Management

You may configure administrator account and password, NTP settings, and Dynamic NTP settings here.

| Administrator Settings | |
|------------------------|---|
| Account | <input type="text" value="admin"/> <input checked="" type="radio"/> Admin <input type="radio"/> Operator <input type="radio"/> Viewer |
| Password | <input type="password"/> <input type="button" value="Apply"/> |

| Language Settings | |
|-------------------|---|
| Language | <input type="text" value="English"/> <input type="button" value="Apply"/> |

| Web Server Settings | |
|--------------------------------------|-------------------------------------|
| Https(Port:443) | <input checked="" type="checkbox"/> |
| Http | <input checked="" type="checkbox"/> |
| Enable Self Signed Certificate | <input type="checkbox"/> |
| <input type="button" value="Apply"/> | |

| NTP Settings | |
|---------------|---|
| Date | <input type="text" value="01"/> / <input type="text" value="01"/> / <input type="text" value="1970"/> (MM/DD/YY) |
| Time | <input type="text" value="08"/> : <input type="text" value="49"/> : <input type="text" value="09"/> (HH:MM:SS) <input type="button" value="Apply"/> |
| Current Time | <input type="text" value="Thu Jan 1 08:49:08 GMT 1970"/> <input type="button" value="Sync with local time"/> |
| Time Zone | <input type="text" value="(GMT+0800)ChinaCoast.HongKong"/> |
| NTP Server | <input type="text" value="pool.ntp.org"/> ex: time.nist.gov |
| Sync with NTP | Every <input type="text" value="1"/> hours <input type="button" value="Apply"/> |

| Import configuration files | |
|----------------------------|---|
| Location | <input type="button" value="選擇檔案"/> <input type="button" value="沒有選擇檔案"/> <input type="button" value="Import"/> |

| System reset | |
|---------------------------|--------------------------------------|
| Export configuration file | <input type="button" value="Apply"/> |
| Factory Reset | <input type="button" value="Apply"/> |
| Reboot | <input type="button" value="Apply"/> |

Administrator setting

In this section allows user to change password for 3 different authorization level. The account name and password can be changed, but each Authorities only support one Account name & one password.

1. Administrator (Admin): The *Administrator* has the authority to create other users, remove users, and control the device. 9858MT will ask to log in again if change the Default Setting here.

2. Operator: The operator can only control the setting of “ IO Control “ section but can not see other page of 9858MT .

3.Viewer: The viewer can only see the “ IO Control “ section , but can not see other page of 9858MT.

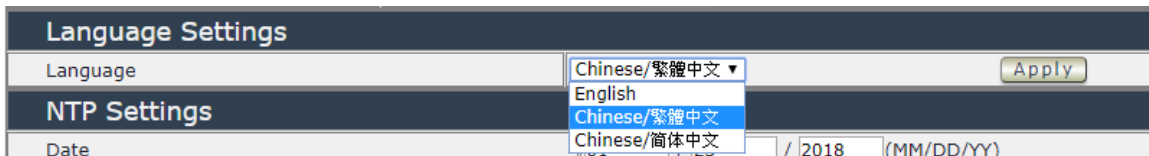
Default Setting of the Authorities :

| Authority | Account name | Password |
|-----------|--|----------|
| Admin | Admin | 12345678 |
| Operator | user | User |
| Viewer | guest | Guest |
| 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

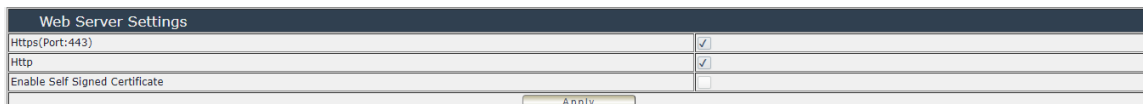
Langrage Settings

There are 3 language option of 9858MT .The default langrage is English. The other two languages are “Traditional Chinese “ and “ Simple Chinese “ .



Web Server Settings

There are 3 options to setting Web server. (1) http (2) https (3) self-signed certificate
Http and Https are quite simple, just click on the icon to enable or disable it.



If you click the self-signed certificate, it will show two options of the certificate we provide, Choose the certificate you want in one of the options.

NTP setting

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

| NTP Settings | |
|---------------|--|
| Date | 01 / 23 / 2018 (MM/DD/YY) |
| Time | 14 : 49 : 22 (HH:MM:SS) <input type="button" value="Apply"/> |
| Current Time | Tue Jan 23 14:49:21 GMT 2018 <input type="button" value="Sync with local time"/> |
| Time Zone | (GMT+0800)ChinaCoast,HongKong |
| NTP Server | pool.ntp.org ex: time.nist.gov |
| Sync with NTP | Every 1 hours <input type="button" value="Apply"/> <input type="button" value="Cancel"/> |

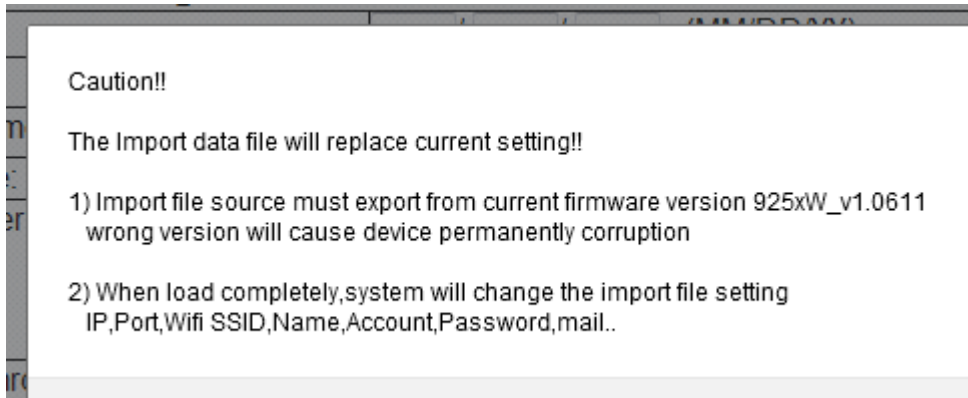
SYNC with NTP : User can setup the time gap (1~300 hours) for 9858MT to check the time with the NET server .

Import configuration file

To setup multiple with same setting , user can import the settings of other 9858MT from a " DAT " file which is exported form another 9858MT . By import this file to other 9858MT device and shorten the setup time .

| Import configuration files | |
|----------------------------|---|
| Location | <input type="button" value="選擇檔案"/> 未選擇任何檔案 <input type="button" value="Import"/> <input type="button" value="Cancel"/> |

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



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

- Do NOT import DAT file which is not export form 9858MT. 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

User can click one button to set back the setting to default or restart the 9858MT without device nearby user side.

Note : The factory default setting of 9858MT IP is assigned by DHCP. It will change the IP if load factory defaults .

| System reset | |
|---------------------------|--------------------------------------|
| Export configuration file | <input type="button" value="Apply"/> |
| Factory Reset | <input type="button" value="Apply"/> |
| Reboot | <input type="button" value="Apply"/> |

- Export configuration file : Export the settings into DAT file for import to other 9858MT
- Factory Reset : set back to factory default .
- Reboot : 9858MT device power reboot

4.5.2 System Information

User can get the system information here.

| System Information | | | |
|--------------------------|----------------------------|------------------|-------------------|
| System | | | |
| System Up Time | 0 days 0 hour 2 min 55 sec | MAC Address | 00:76:58:00:4E:C0 |
| Firmware Version | v1.29_710 | Hardware Version | 4.4.1.7 |
| WAN | | | |
| WAN IP Address | 0.0.0.0 | Ethernet Port | 80 |
| Default Gateway | 192.168.1.1 | Internet Port | 80 |
| Primary DNS | 168.95.1.1 | Secondary DNS | 8.8.8.8 |
| LAN | | | |
| Connected Type | DHCP | | |
| Local IP Address | 192.168.1.168 | | |
| Local Netmask | 255.255.255.0 | | |
| VPN | | | |
| IP Address | 0.0.0.0 | | |
| Other Information | | | |
| SNMP | Disable | | |
| ModBusTCP | Disable | | |
| BacnetIP | Disable | | |
| Telnet | Enable | | |
| UPNP | Disable | | |
| IPSERVICE(Search) | Disable | | |
| CNT(Remote control) | Disable | | |
| Rotation System | Disable | | |
| Http | Enable | | |
| PPTP | Disable | | |

4.5.3 System Log

In this section , user can get the 9858MT system operation information and send the information to assign Server IP address (not support name) . **The system information will be deleted after 9858MT device power reboot.**

System Log

Syslog:
Syslog Server IP Address

System Log:

```
Jan 23 18:16:04 IP_POWER syslog.info syslogd started: BusyBox v1.12.1
Jan 23 18:16:04 IP_POWER kern.notice kernel: klogd started: BusyBox v1.12.1 (2017-12-07 01:17:44
Jan 23 18:16:04 IP_POWER kern.alert kernel: [ 9.016000] PROC INIT OK!
Jan 23 18:16:04 IP_POWER kern.err kernel: [ 9.780000] gre: can't add protocol
Jan 23 18:16:04 IP_POWER kern.err kernel: [ 19.024000] ### raeth: can not open udhcpc_eth.pid
```

Please click the IP and save by click “ Apply ”

4.5.4 Firmware

Please only use the file supply from Aviosys distributor or Aviosys .

There are two sections: Bootloader & Firmware

The firmware update function only support in LAN connection .
Before update, please DO [READ THE HI-LITE MESSAGE BLOW](#):

Bootloader: This function is about to update hardware and control driver, it works with firmware but not change all the time.

It takes about 1 minute to upload upgrade flash and be patient please. Caution! A corrupted image will hang up the system.

AVIOSYS

Upgrade Firmware

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.

Version:Old

Update Bootloader

Location: 未選擇任何檔案

Firmware

Location 未選擇任何檔案

To update the 9858MT, please follow the instruction below to prevent anything happens like **update incomplete** or **hardware disable** which may be caused by wrongdoing of updating:

- 1) Turn off all chat programs including (Skype, FB, QQ, AIM, Yahoo messengeretc.)
- 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, .
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 button for 10secs) after update successfully.
- 11) **Clear the Cookies from the temporary file of PC** to avoid get the old webpage .

Please also update the notice in webpage before update:

5. Other ways to control

Besides web page control, there are several ways to control the outlets: by HTTPS/CGI command or by Telnet. 9858MT also supports SNMP (MIB), Modbus/TCP and BACnet/TCP.

Please check page #41 to check and enable the function.

5.1 CGI HTTP Commands

CGI Commands allow you to easily integrate the 9858MT 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 you 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 ways also work for HTTPS

2. Command

set.cmd?cmd=

All commands do not separate capital / lower case, the connect symbol between commands can be "+", "&" and "?".

2.1 To get firmware version: getversion

<http://192.168.1.18/set.cmd?cmd=getversion>

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

2.2 To get MAC address: getmac

<http://192.168.1.18/set.cmd?cmd=getmac>

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

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

<http://192.168.1.18/set.cmd?cmd=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:

<http://192.168.1.18/set.cmd?cmd=setpower&p61=1&p62=1&p63=0>

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) , ; dealyTime mean the time (second) waiting for reset

For example :

<http://192.168.1.18/set.cmd?cmd=setpowercycle&p61=5&p62=2&p63=4>

System return: CGI Command : Data follows

p61 cycle ok,p62 cycle ok,p63 cycle ok

5.2 Telnet Control

Please enable the telnet function in “Application “ → “ Communication “

Or Check page #48 to check and enable the function .

| TELNET: | |
|--------------------------------------|-------------------------------------|
| Enable | <input checked="" type="checkbox"/> |
| <input type="button" value="Apply"/> | |

```
c:\ Telnet 192.168.1.18
IP login: admin
Password:
```

```
c:\ Telnet 192.168.1.18
#
# ioctrl -h
**-----**
Usage: ioctrl
[-h | --help ].....: display this help
[-s | --setpower p6=0011 or p6x=1(x=1,2,3,4)].....: turn on/off ports on the d
evice
[-p | --getpower ]..: get the on/off status of the device
[-c | --current ].....: get the current value of the device
[-t | --temp ].....: get the temperature value of the device
[-v | --version ].....: display version information
-----
# ioctrl -s p6=1111
p61 ok,p62 ok,p63 ok,p64 ok,
# ioctrl -c
Current value: 0.000000, 0.000000, 0.000000, 0.000000
# ioctrl -t
Temperature value: 32.299999
# ioctrl -v
IO CONTROL Version: 1.0
Compilation Date....: May 14 2013
Compilation Time....: 10:44:47
# ioctrl -p
Power Status: 1, 1, 1, 1
#
```

Notice: The command “ -C “ & “ -T “ are for models 9820 & 9828 only .

C =Current . T =Temperature

6.FAQ :

Q1: Why can't I see the 9858MT's IP address in IPEDIT.exe ?

Ans.: Please check the PC you use is under same LAN/ network / segment as 9858MT . 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 IP9858MT.

Please refer the following possible parts for this 9858MT not been searched by IPEDIT

- Boot up successfully : Please reboot the 9858MT and check if there are 1 short beep after 3 seconds . This beep means the device boot up successfully . If not , the device may have issue.
- Network card : Please check if there are more than two network card – include wire / wireless / dynamic - in the PC which used IPEDIT software . IPEDIT only support single network PC , please disable the other network connection / functions.
- Anti Virus software / Firewall : Please turn off the antivirus software firewall temporary.
- Power : If there is no power go to 9858MT , please check the fuse part . There will be no power for 9258 if the fuse buttons is popped up - not easy/flexible to press as it was – by over loading for long time , please press the fuse back and the power will go to 9258 to boot up .
- 6. Connection : Please make sure that the 9858MT is under same router with the PC used IPEDIT . It is fine to connect across multiple routers but it need to setup the MASK part which need some knowhow .

Q2 : 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.

Q4: How can I reset to default:

Ans : Keep pressing the button of "RESET for 10 seconds at least

To reset to original manufacture settings : press the reset button with a sharpen pin for 10 seconds then RELEASE. There will be 3 beeps sound which means reset start and 9858MT will be rebooted itself -there is one beep after reboot) and most information go back to default setting (LAN IP).