

# IP Power 9858 MT

## User Manual



**Version: V1.00**  
( Firmware Version: 1.1.5 )  
**Date Released: DEC. 2019**

**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

<b>1. INTRODUCTION</b> .....	<b>5</b>
<b>2. PRODUCT INFORMATION</b> .....	<b>6</b>
2.1 Features : .....	6
2.2 Specification .....	7
2.3 Minimum System Requirements.....	7
2.4 Package Contents.....	8
2.5 Interface .....	8
<b>3. SETTING UP YOUR DEVICE</b> .....	<b>10</b>
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 .....	15
<b>4. WEB INTERFACE</b> .....	<b>17</b>
4.1 Top Column .....	18
4.1.1 Device name .....	18
4.1.3 Time : .....	20
4.2 Power Control :.....	21
4.2.1 Control.....	21
4.2.2 Schedule.....	29
4.2.3 Ping.....	31
4.3 Network : .....	35
4.4 Application Settings : .....	37
4.4.1 Email.....	37
4.4.2 DDNS .....	42
4.4.3 Communication.....	42
4.4.4. IP SERVICE .....	46
4.5 System Setting : .....	47
4.5.1 Management .....	48
4.5.2 System Information .....	51
4.5.3 System Log .....	51

4.5.4 Firmware.....	52
<b>5.OTHER WAYS TO CONTROL.....</b>	<b>53</b>
5.1 CGI HTTP Commands .....	53
5.2 Telnet Control.....	55
<b>6.FAQ :.....</b>	<b>56</b>

# 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. com .....etc.
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 – Metal 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 <sup>a</sup> / 250VAC


### ● PHYSICAL & ENVIRONMENT

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

## 2.5 Interface

Front View

	
<p><b>From Left to right :</b></p>	
<p><b>LED of Outlet Status</b></p>	<p>The outlet status #1 ~ #4 Indicator - Green light ON as outlet ON. Light OFF as outlet OFF</p>
<p><b>Reset</b></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><b>Reboot</b></p>	<p>For device power reboot by one click. It will take 70 seconds for the system boot up.</p>
<p><b>Network</b></p>	<p>LAN 10/100 Mbps network</p>



## Rear View



### Interface from Left to right :

<b>4 outlets</b>	Connect up to 4 individual outlets to be controlled by the 9858MT. Ports sequence as 4 / 3 / 2 / 1 . <ul style="list-style-type: none"> <li>● 9858MT-S : IEC320 socket , 10A / 240VAC</li> <li>● 9858MT-T : NEMA socket , 15A / 100VAC</li> </ul>
<b>Power Input &amp; Fuse socket</b> 	In this socket, there are one power input and one fuse socket . <ul style="list-style-type: none"> <li>● Power input : 100-240VAC. 10A 240VAC or 15A 100VAC</li> <li>● <b>Fuse</b> : 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 .</li> </ul> <p><b>TYPE</b> : 10A 250V ( 9858MT-S ) or 15A 250V ( 9858MT-T )</p>
<b>Power Switch</b>	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.

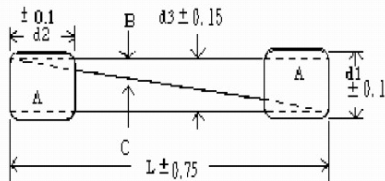
### ● Fuse replacement

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](http://www.aviosys.com/cd) . The note with this online CD link comes with the package .

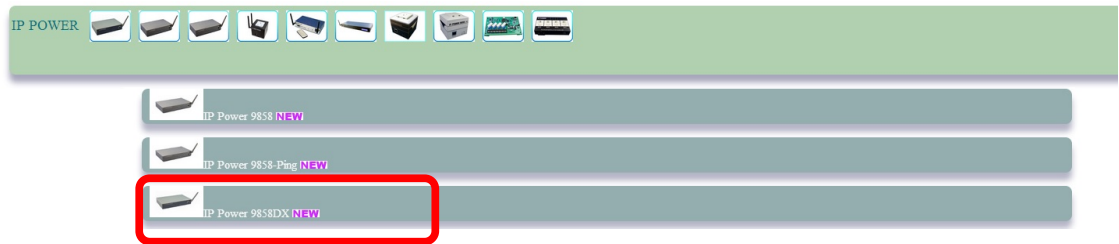
#### IP Power Software:

IP Edit ( Required)

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

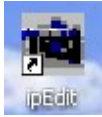


1.) Select the IP Power 9858MT



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.

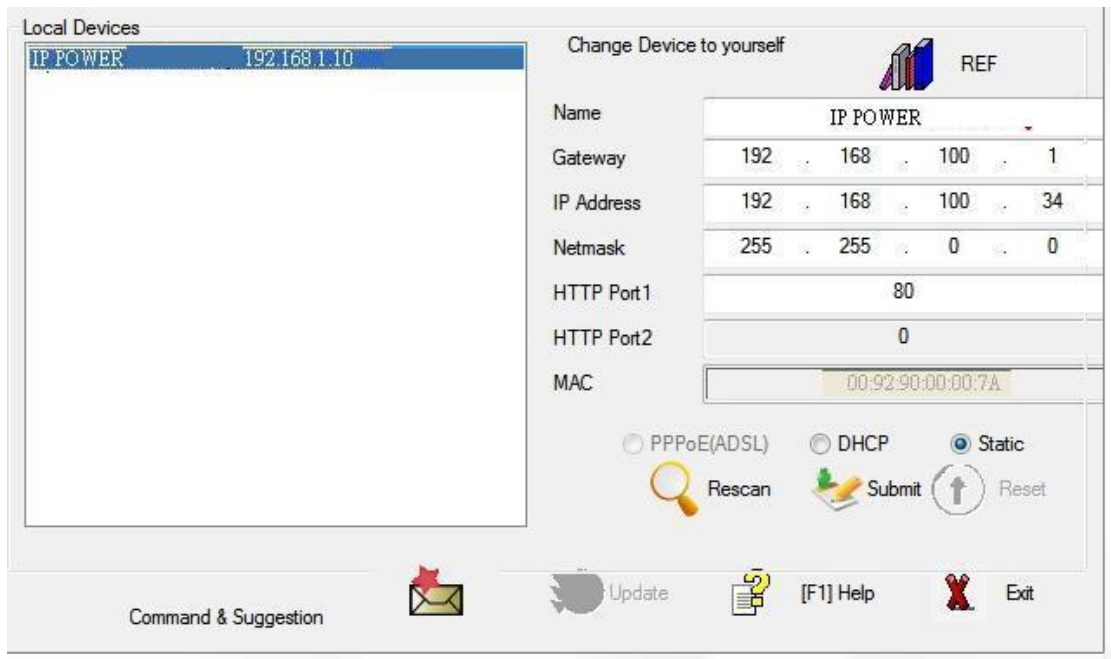
#### **IP Power 9858MT Default Login / Password**

**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.

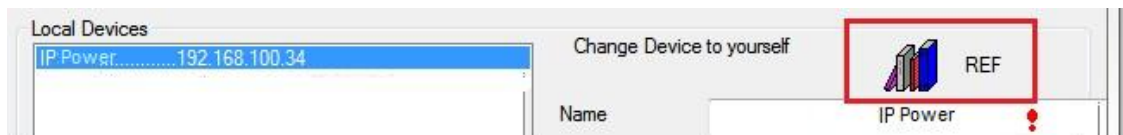
6.) Type in the default Login and IP Address to enter the device.

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

Buttons: Save icon, APPLY, Cancel icon, 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

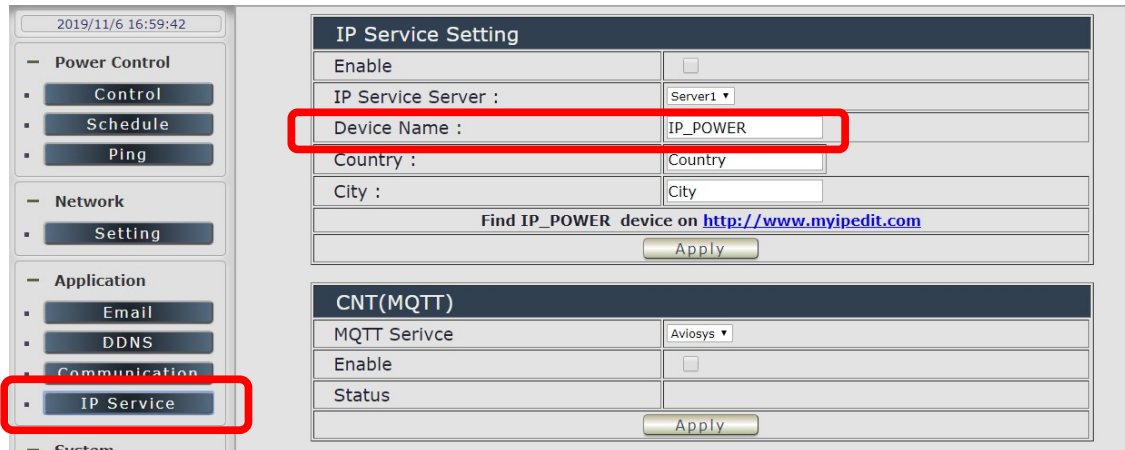
To connect the IP Power 9858MT on Internet, there are two ways

- 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](http://www.aviosys.com/cd)

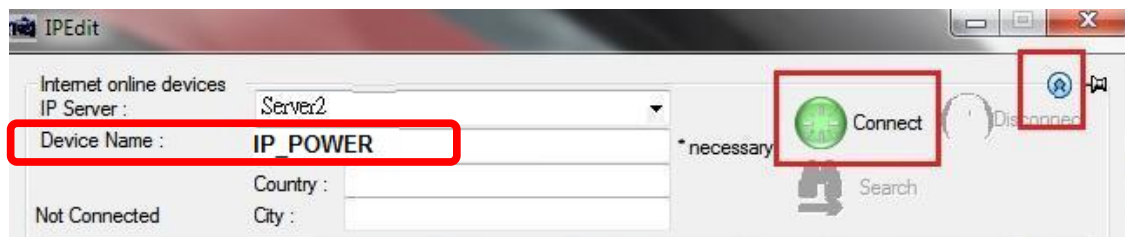
### 3.3.3 Using IP Service

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.**

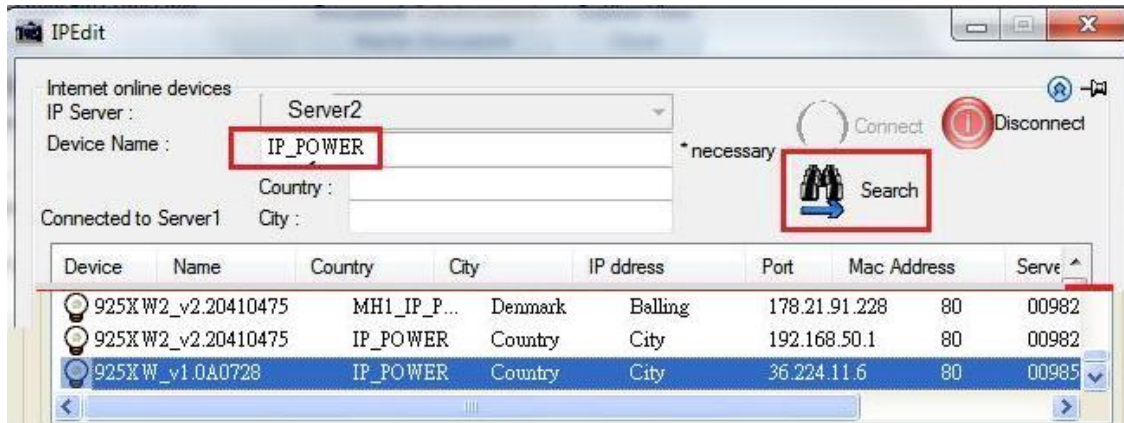


- 1.) Open IP Edit and select the server that user's 9858MT is designated to.
- 2.) Hit the Green Connect button on the top of IP Edit.



- 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.

**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' in yellow and 'AVIOSYS' in red. The left sidebar contains a navigation menu with categories: Power Control (Control, Schedule, Ping), Network (Setting), and Application (Email, DDNS, Communication, IP Service). The 'IP Service' menu item is highlighted with a red box. The main content area shows the 'IP Service Setting' form. The 'Device Name' field is highlighted with a red box and contains the text 'IPPOWER'. The 'Apply' button is also highlighted with a red box. Below the IP Service Setting form is the 'CNT(MQTT)' form, which includes fields for MQTT Service, Enable, and Status, with an 'Apply' button at the bottom.

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

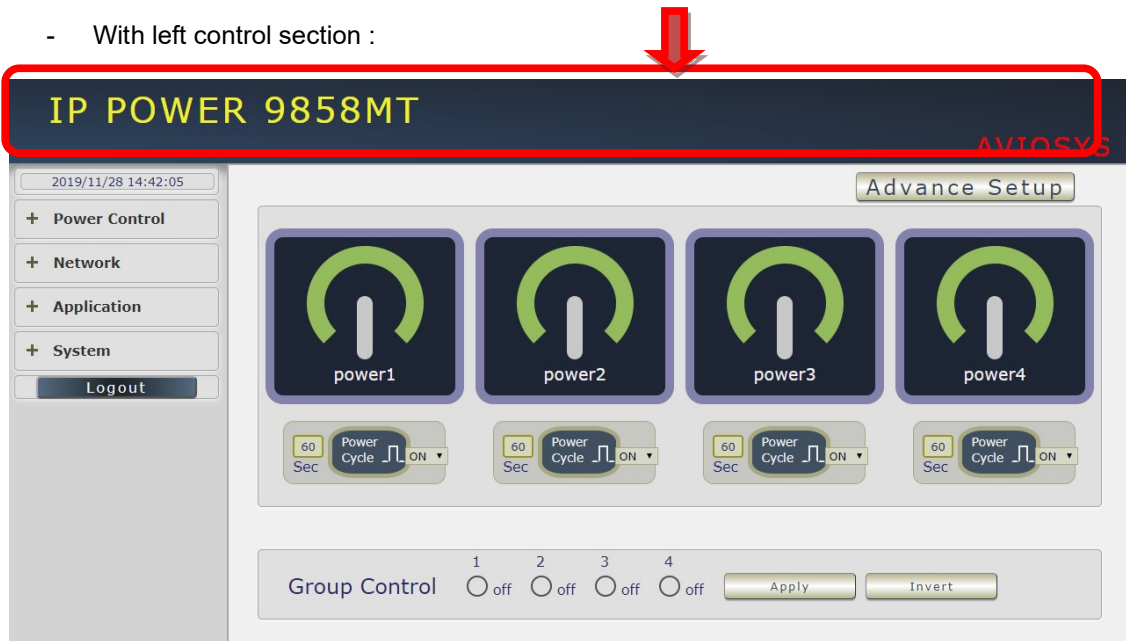
After apply the change , please click " Refresh " of the webpage to get the display update .



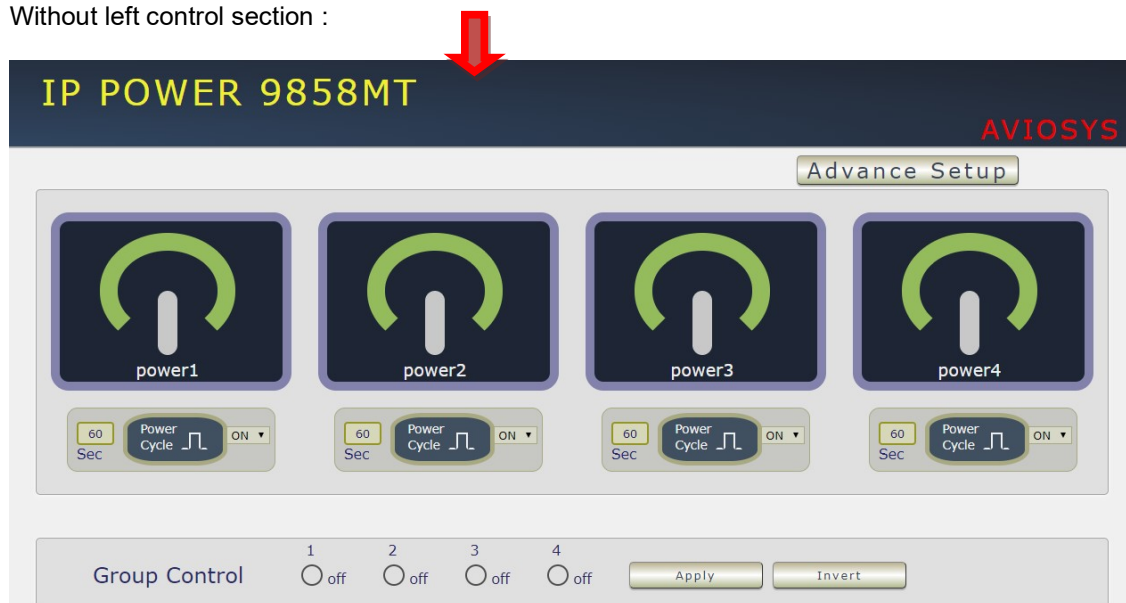
#### 4.1.2 Column Display :

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 :



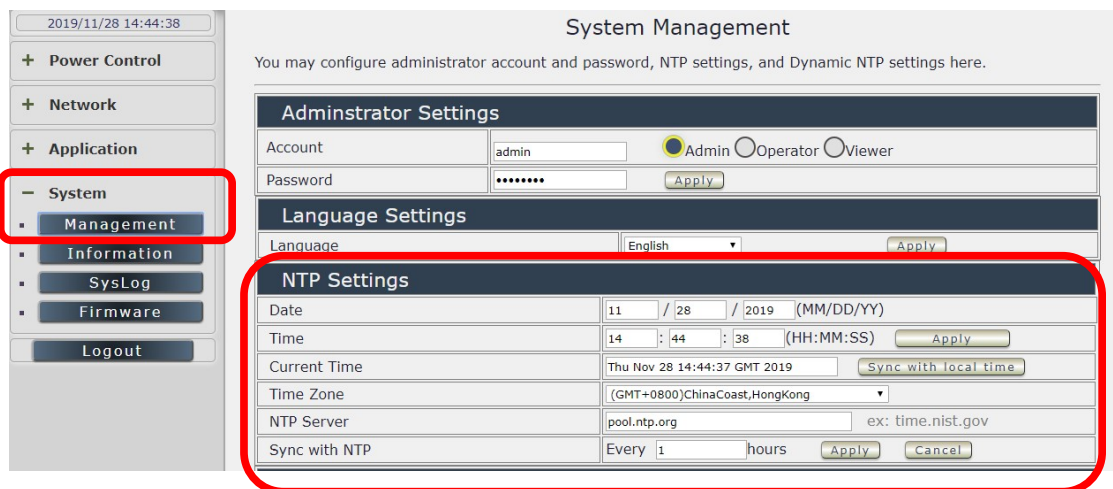
### 4.1.3 Time :

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 sultion :

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 'System' highlighted in red. Under 'System', 'Management' is also highlighted in red. The main content area shows 'Administrator Settings', 'Language Settings', and 'NTP Settings'. The 'NTP Settings' section is highlighted in red and contains the following fields:

NTP Settings	
Date	11 / 28 / 2019 (MM/DD/YY)
Time	14 : 44 : 38 (HH:MM:SS) <input type="button" value="Apply"/>
Current Time	Thu Nov 28 14:44:37 GMT 2019 <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"/>

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:

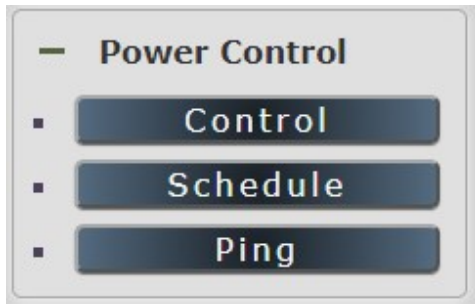
BusyBox v1.12.1 (2019-07-08 01:01:56 PDT) built-in shell (ash)
Enter 'ioctrl -h' for a list of built-in commands.

# 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 3 sections : Control , Schedule & Ping .



### 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



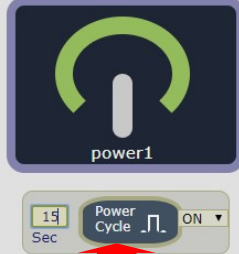



- As ON, Select OFF and press "Power cycle " then the outlet status is ON → OFF.
- As ON, Select ON and press "Power cycle " then the outlet status is ON → OFF → ON.
- As OFF, Select ON and press "Power cycle " then the outlet status is OFF → ON.
- As OFF, Select OFF and press "Power cycle " then the 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 “ &amp; 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 “ &amp; 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 “ &amp; 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 “ &amp; 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 --&gt; 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 contorl.

## B. Advance Setup :

In this page, user can setup Name of each port , Notification , Power cycle , Shutdown On LAN Settings , Wake On Lan Settings

Port Name Setting				
Outlet1	Outlet2	Outlet3	Outlet4	
power1	power2	power3	power4	

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 type="checkbox"/>	<input type="checkbox"/>
Default Power Status	LAST ▾	LAST ▾	LAST ▾	LAST ▾

Apply

Power Cycle Time Setting				
Name	power1	power2	power3	power4
Power Cycle Time	60 Seconds	60 Seconds	60 Seconds	60 Seconds

Apply

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

Apply

Wake On Lan Settings				
Control Outlet	MAC			
power1	000000000000			Send
power2	000000000000			Send

### 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:

server-001

確定 取消

Port Name S	power2	power3	power4
Outlet1			Outlet4
power1			

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

2019/11/28 15:29:54

2019/11/28 15:29:54

Advance Setup

server-001 power2 power3 power4

60 Sec Power Cycle ON

## 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 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"/>
Default Power Status	LAST ▾	LAST ▾	LAST ▾	LAST ▾

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"/>

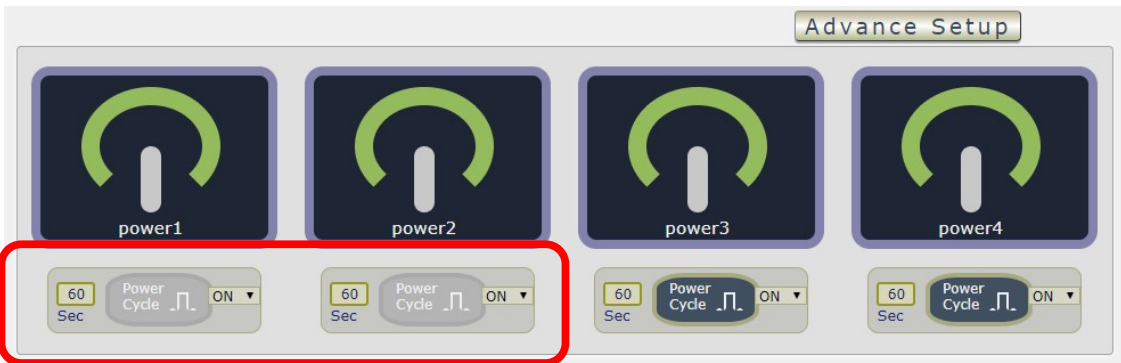
Then the page will be as following :



- 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 ▾

- Power cycle time setting :

Power Cycle Time Setting				
Name	power1	power2	power3	power4
Power Cycle Time	60 Seconds	60 Seconds	60 Seconds	60 Seconds

- 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.

Please check the software in the SDK section of package CD .  
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

- 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	<input type="text" value="000000000000"/>	<input type="button" value="Send"/>
power2	<input type="text" value="000000000000"/>	<input type="button" value="Send"/>
power3	<input type="text" value="000000000000"/>	<input type="button" value="Send"/>
power4	<input type="text" value="000000000000"/>	<input type="button" value="Send"/>

Duration Mode     Once     Every Week     Every Day

Date: From  to

Time  :  :  (Hr:Min:Sec)

Schedule power action

<b>Jason</b> <input checked="" type="checkbox"/> <input type="text" value="SOL"/> Relay-ON Relay-OFF Relay-CYCLE WOL SOL	<b>tony</b> <input checked="" type="checkbox"/> <input type="text" value="SOL"/>	<b>power3</b> <input checked="" type="checkbox"/> <input type="text" value="Relay-OFF"/>	<b>power4</b> <input checked="" type="checkbox"/> <input type="text" value="Relay-OFF"/>
--	---	---	---

**Ping List**

**Global Ping Base Setting** **Apply**

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

**Conditional Mode**     Single  OR  And

IP & Host Name	Failed times then action	Repeat	
www.baidu.com <span style="float: right;"><b>Check</b></span>	03		<b>Rule No1</b>
www.sony.com <span style="float: right;"><b>Check</b></span>	03	Stop	

Ping failure action

<b>Jason</b> <input checked="" type="checkbox"/> Relay-OFF Relay-ON Relay-OFF Relay-CYCLE WOL <b>SOL</b>	<b>tony</b> <input checked="" type="checkbox"/> Relay-OFF	<b>power3</b> <input checked="" type="checkbox"/> Relay-OFF	<b>power4</b> <input checked="" type="checkbox"/> Relay-OFF
--	--	--	--

**Apply Rule**
**Delete**

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

### 4.2.2 Schedule

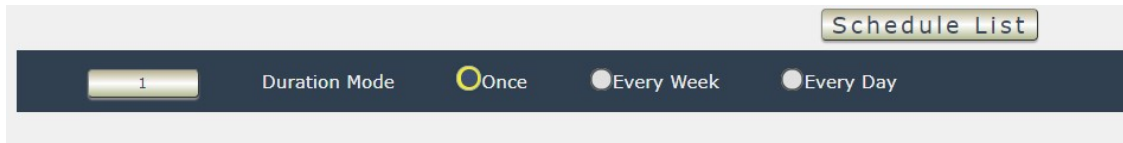
In this section , user can see the setting schedule list first up to 29 rules . To setup each schedule , please press “ Schedule Setting ” , then user can get the “ Schedule List ” page as following :

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

**Schedule Setting**

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

No.1	On 0000/00/00	<b>Schedule</b> Action at 00:00:00	
------	---------------	---------------------------------------	--



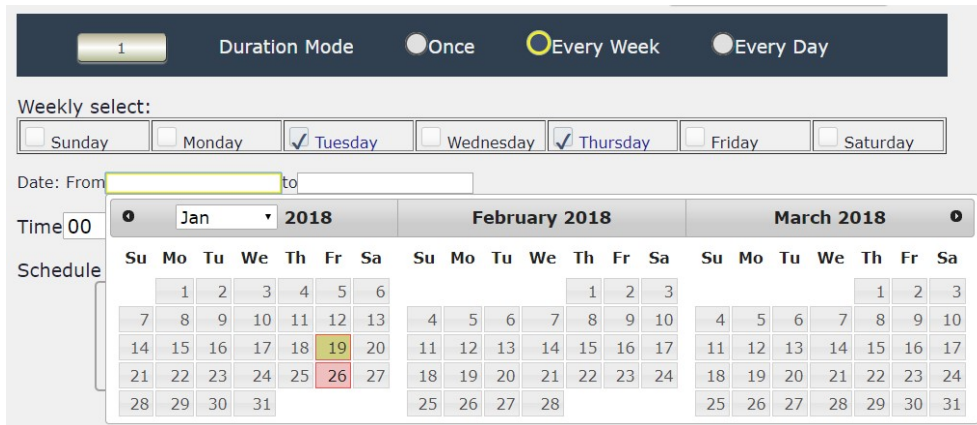
The schedule allows you to control the power outlet or turn ON / OFF/ RESET at assigned time

- Adding a Scheduled Event

1. Select the Action Duration :

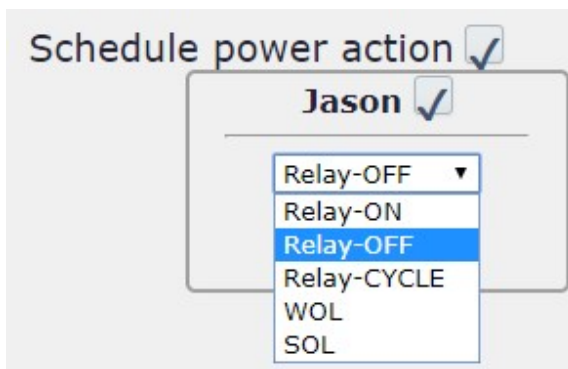
There are 3 setting - Once , Every Day . Every Week

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

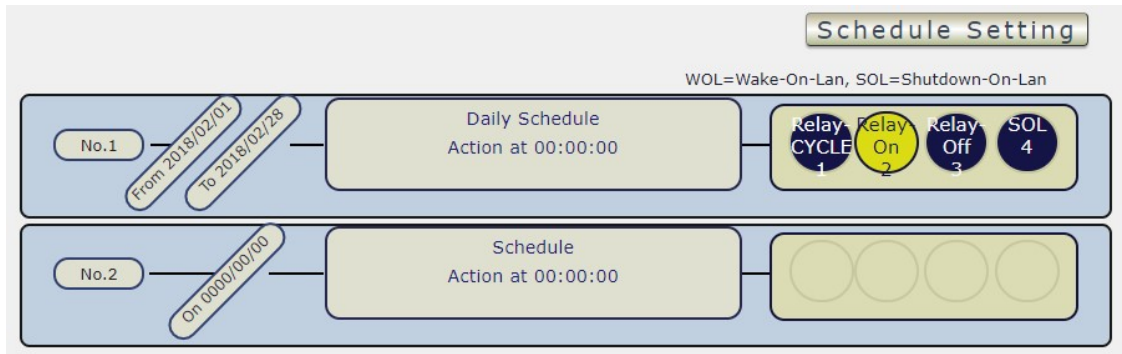


3. Select the Time Period.

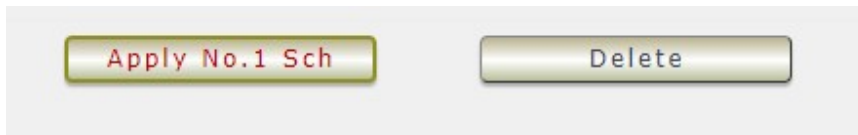
4. Choose the Action : Enable power # by clicking in the small square to mark “ v “ , and select one from the power action of OFF/ON/RESET as you need .



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



- **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 .

### 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 .**

- **Ping List Page :**



- **Ping Setting Page :**

The screenshot shows the 'Global Ping Base Setting' interface. At the top right, there is a 'Ping List' button highlighted with a red arrow. Below it, the 'Global Ping Base Setting' section includes an 'Apply' button and two rows of settings: 'Ping Interval' (5 Sec.) and 'Response Time Out' (900 ms.), and 'Ping After Action Delay' (5 Sec.) and 'Action Max repeat times' (1 (0=non stop)). The 'Conditional Mode' section has radio buttons for 'Single', 'OR', and 'And', with 'And' selected. Below this is a table for conditional rules:

IP & Host Name	Failed times then action	Repeat
www.yahoo.com	00	Stop
www.google.com	00	Stop

At the bottom right of the table, there is a green button labeled 'Rule No1'. Below the table, there is a 'Ping failure action' checkbox and two buttons: 'Apply Rule' and 'Delete'.

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 . There are 29 rules available.

This screenshot is similar to the previous one, but the 'Conditional Mode' section has 'OR' selected instead of 'And'. The table below it has two rows:

IP & Host Name	Failed times then action	Repeat
www.baidu.com	03	Stop
www.sony.com	03	Stop

A red arrow points to the green 'Rule No1' button on the right side of the table.

2. **Ping Base Setting :**

This screenshot shows only the 'Global Ping Base Setting' section of the interface. It includes the 'Apply' button and the two rows of settings: 'Ping Interval' (5 Sec.) and 'Response Time Out' (900 ms.), and 'Ping After Action Delay' (5 Sec.) and '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 .

#### ● 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 .

**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.

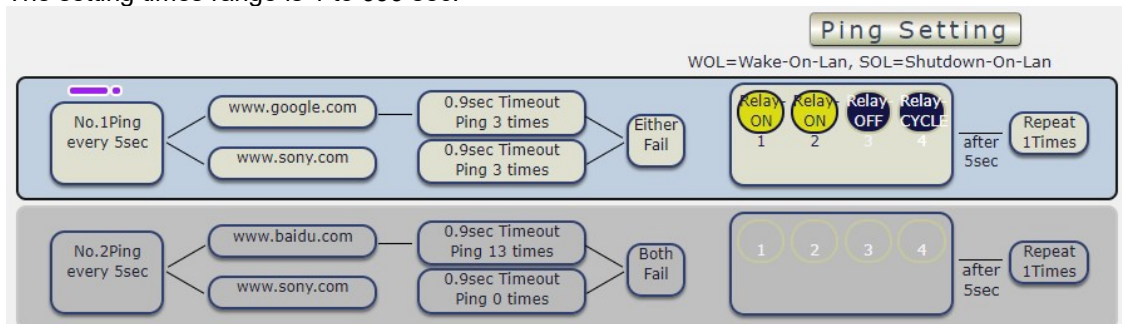
- IP & Host Name : Input the IP Address ( ex: 122.116.123.138) or Host - web address ( ex: www.google.com) user would like to Ping.  
User can use the “ ping test “ bottom to check the address valid or not
- Failed times then action : Setup the ping failure times for 9858MT to execute the setup ON/OFF / 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.



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.

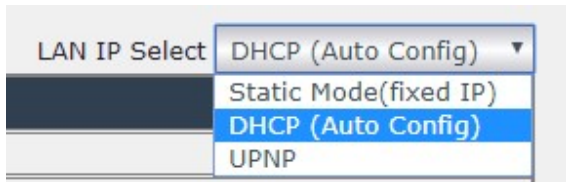
EX: Result of setting

### 4.3 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 3 network connection way : Static IP / DHCP / UPNP



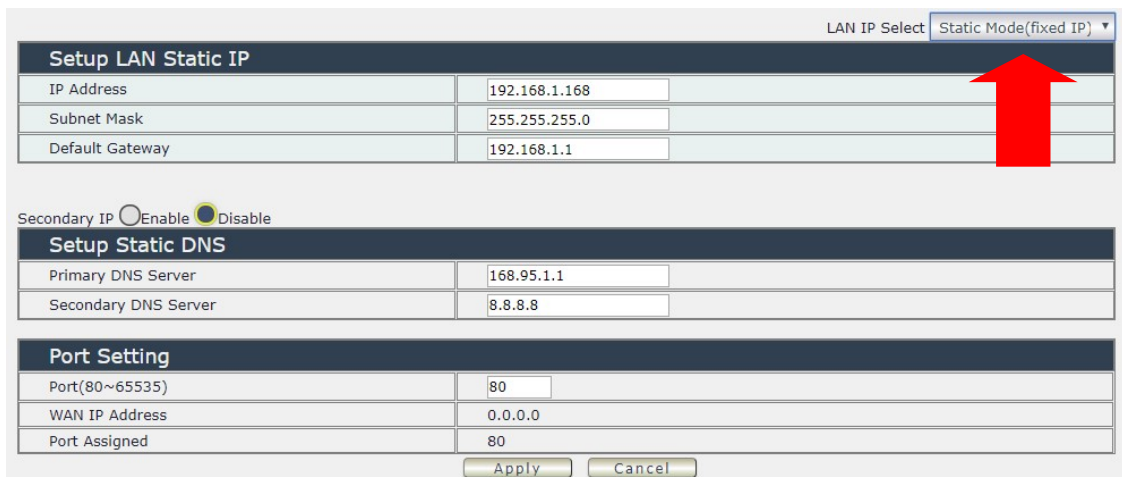
A screenshot of a web interface showing a dropdown menu for 'LAN IP Select'. The menu is open, displaying four options: 'DHCP (Auto Config)' (selected), 'Static Mode(fixed IP)', 'DHCP (Auto Config)', and 'UPNP'.

#### 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) .**



A screenshot of a web interface for configuring LAN settings. The 'LAN IP Select' dropdown is set to 'Static Mode(fixed IP)'. The page is divided into three sections: 'Setup LAN Static IP', 'Setup Static DNS', and 'Port Setting'. A red arrow points to the 'Static Mode(fixed IP)' dropdown.

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

#### 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. 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.


LAN IP Select **UPNP**

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

Apply Cancel

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

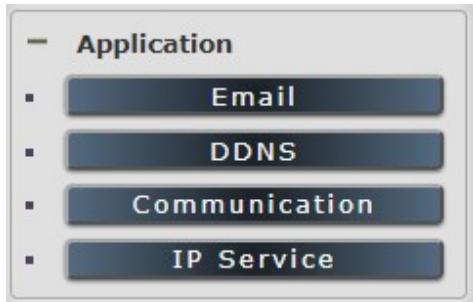
Apply



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

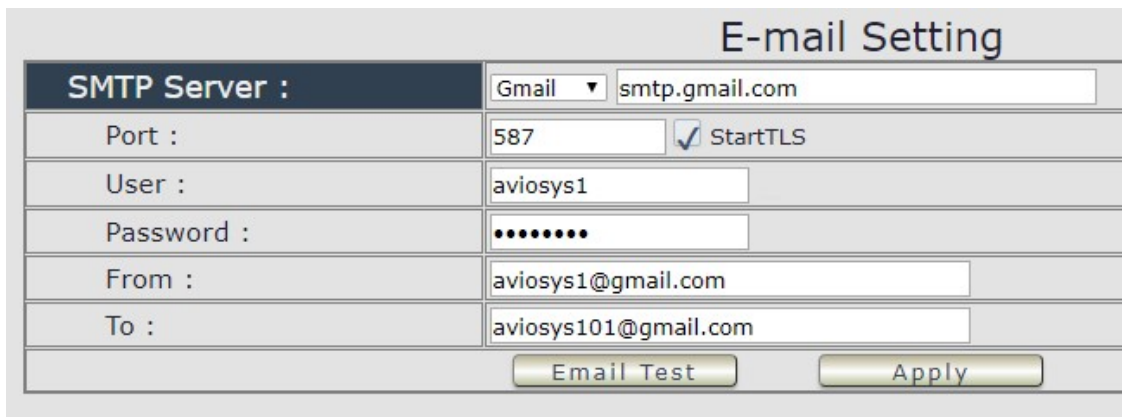
**Please do fill up the correct DNS server for sending / receiving email ( alarm ) .**

## 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 contains the following fields and controls:

E-mail Setting	
SMTP Server :	Gmail <input type="text" value="smtp.gmail.com"/>
Port :	587 <input checked="" type="checkbox"/> StartTLS
User :	aviosys1
Password :	••••••••
From :	aviosys1@gmail.com
To :	aviosys101@gmail.com
<input type="button" value="Email Test"/> <input type="button" value="Apply"/>	

#### ● 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](mailto: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](mailto: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 :

The screenshot shows a web interface for 'Power Control'. On the left is a sidebar with navigation options: IO Control (Control, Schedule, Ping), Network, and Application (Email, DDNS, Communication, IP Service). The main content area has two tables:

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 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"/>
Default Power Status	ON	ON	OFF	OFF

An 'Apply' button is located at the bottom center of the notification settings table.

## ● 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 <input checked="" type="checkbox"/> Enable	
<b>POP3 Server :</b>	Gmail pop.gmail.com
<b>From :</b>	aviosys@gmail.com
<b>Port :</b>	110
<b>User :</b>	aviosys1
<b>Password :</b>	*****
<b>Tag :</b>	Test
<b>Interval(Minute) :</b>	2
<b>Mail Number :</b>	100
<b>CTRL Format :</b>	<input checked="" type="radio"/> Subject <input type="radio"/> Body
<input type="button" value="Apply"/>	
<b>Example:</b>	
<b>E-Mail Test:</b>	yourmail
<b>Subject:</b>	IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF
<b>Body:</b>	
<input type="button" value="Submit"/>	

### 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](mailto:123@gmail.com) or [abc@def.com](mailto: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:**  
  
**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

Basic Text

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

To...

Send Cc... Bcc...

Account Subject:

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 a web interface for configuring an email command. At the top, there is a 'CTRL Format' section with two radio buttons: 'Subject' (which is selected and highlighted with a red box) and 'Body'. Below these 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 that is a 'Subject:' label followed by a text input field containing the command: 'IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF'. This entire 'Subject:' field is highlighted with a red box.

- Execute e-mail command by " Body "

The screenshot shows the same web interface as above, but with the 'Body' radio button selected and highlighted with a red box. The 'Subject' field is now empty. The 'Body:' label is followed by a text input field containing the command: 'IPPOWERCTRL:TAG=Test;POWER1=OFF;POWER2=OFF;POWER3=OFF;POWER4=OFF'. This entire 'Body:' field is highlighted with a red box. At the bottom of the interface, there 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](http://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 charge as apply new account.

DDNS Setting	
Service Provider :	None
Account :	None
Password :	freedns.afraid.org
Domain Name :	www.zoneedit.com

Apply Cancel

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:	
<b>SNMP:</b>	
Enable	<input type="checkbox"/>
Community Authority :	N/A
Community Name :	private
Trap type :	N/A
Host(192.168.1.1:162) :	192.168.1.1:162
Trap Community :	private
MIB file	IPPOWER-MIB.txt
Apply	
<b>TELNET:</b>	
Enable	<input checked="" type="checkbox"/>
Apply	
<b>Modbus (TCP)</b>	
Modbus Enable	<input type="checkbox"/>
Port	502
Apply	
<b>BACnet (Beta)</b>	
Enable	<input type="checkbox"/>
Port	47808
Apply	

## 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”

SNMP:	
Enable	<input type="checkbox"/>
Community Authority :	N/A
Community Name :	N/A
Trap type :	Read Only
Host(192.168.1.1:162) :	192.168.1.1:162
Trap Community :	private
MIB file	<a href="#">IPPOWER-MIB.txt</a>
<input type="button" value="Apply"/>	

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

SNMP:	
Enable	<input type="checkbox"/>
Community Authority :	N/A
Community Name :	private
Trap type :	N/A
Host(192.168.1.1:162) :	192.168.1.1:162
Trap Community :	private
MIB file	<a href="#">IPPOWER-MIB.txt</a>
<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

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

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

```

C:\> Telnet 192.168.1.18

IP login: admin
Password:

```

```

C:\> Telnet 192.168.1.18

#
# ioctrl -h
**-----**
Usage: ioctrl
[-h : --help l.....: display this help
[-s : --setpower p6=0011 or p6x=1(x=1,2,3,4)l.....: turn on/off ports on the d
evice
[-p : --getpower l.: get the on/off status of the device
[-c : --current l.....: get the current value of the device
[-t : --temp l.....: get the temperature value of the device
[-v : --version l.....: 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 9858MT only .

### C.Modbus TCP

A. **Modbus** : We supply 3 models of ModBus control

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

TCP Modbus	
Modbus Enable	<input checked="" type="checkbox"/>
Server IP	1.34.50
Port	502
Baud Rate	38400
SlaveID	1
Parity	None
Modbus ID	1. <input type="text"/> 2. <input type="text"/> 3. <input type="text"/> 4. <input type="text"/> 5. <input type="text"/> 6. <input type="text"/> 7. <input type="text"/> 8. <input type="text"/>
RTU Enable	<input type="checkbox"/>
Apply	

C-2 Modbus Gate way model : Need to Enable Modbus , Enable RTU & fill Modbus ID .

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

TCP Modbus	
Modbus Enable	<input checked="" type="checkbox"/>
Server IP	1.34.50.123
Port	502
Baud Rate	38400 ▼
SlaveID	1
Parity	None ▼
Modbus ID	1. <input type="text"/> 2. <input type="text"/> 3. <input type="text"/> 4. <input type="text"/> 5. <input type="text"/> 6. <input type="text"/> 7. <input type="text"/> 8. <input type="text"/>
RTU Enable	<input checked="" type="checkbox"/>
<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 <small>Beta</small>	
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	
Enable	<input type="checkbox"/>
IP Service Server :	Server1 ▾
Device Name :	IP_POWER
Country :	Country
City :	City
Find IP_POWER device on <a href="http://www.myipedit.com">http://www.myipedit.com</a>	
<input type="button" value="Apply"/>	

CNT(MQTT)	
MQTT Service	Aviosys ▾
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.

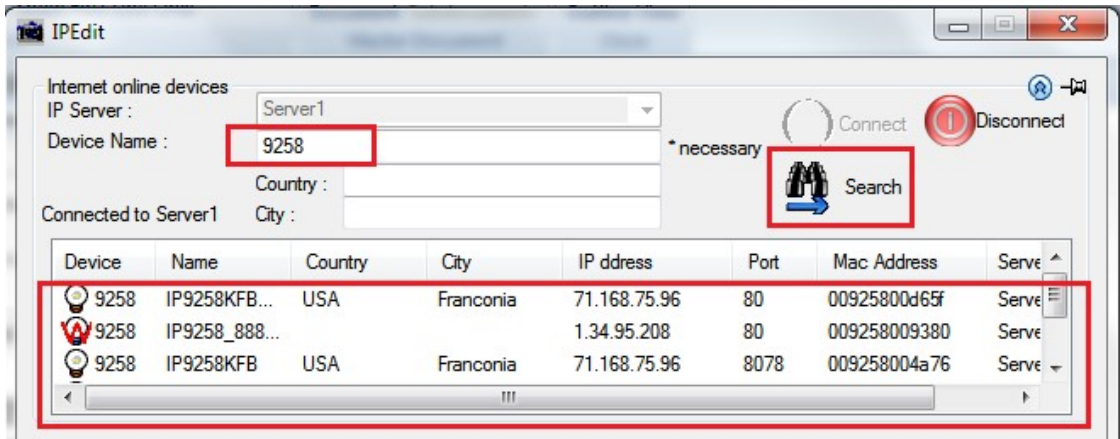
IP Service Setting	
Enable	<input type="checkbox"/>
IP Service Server :	Server1 ▾ Server1 Custom
Device Name :	Country
Country :	City
City :	
Find IP_POWER device on <a href="http://www.myipedit.com">http://www.myipedit.com</a>	
<input type="button" value="Apply"/>	

- 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.

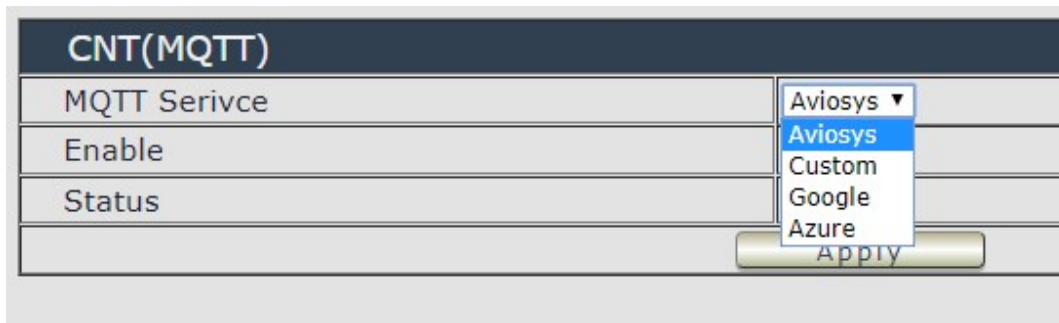
This allows the device to be accessed easily on the Internet, user no longer have to Port Forwarding , user device to be able to use it. Only some devices are CNT compatible.

Please refer page #14 for the function of IP Server

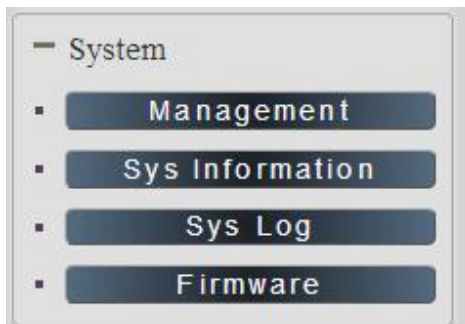


## B. CNT (MQTT) –

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



## 4.5 System Setting :



## 4.5.1 Management

In this section there are 5 settings: Administrator setting, Language Settings , 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	admin <input type="radio"/> Admin <input type="radio"/> Operator <input type="radio"/> Viewer
Password	..... <input type="button" value="Apply"/>
Language Settings	
Language	English <input type="button" value="Apply"/>
NTP Settings	
Date	11 / 29 / 2019 (MM/DD/YY)
Time	15 : 48 : 15 (HH:MM:SS) <input type="button" value="Apply"/>
Current Time	Fri Nov 29 15:48:14 GMT 2019 <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"/>
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"/>
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. <b>Do not use special symbol like “ ” ; : ~ ! @ # \$ % ^ &amp; * ( )</b>	

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

## Language Settings

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

## NTP setting

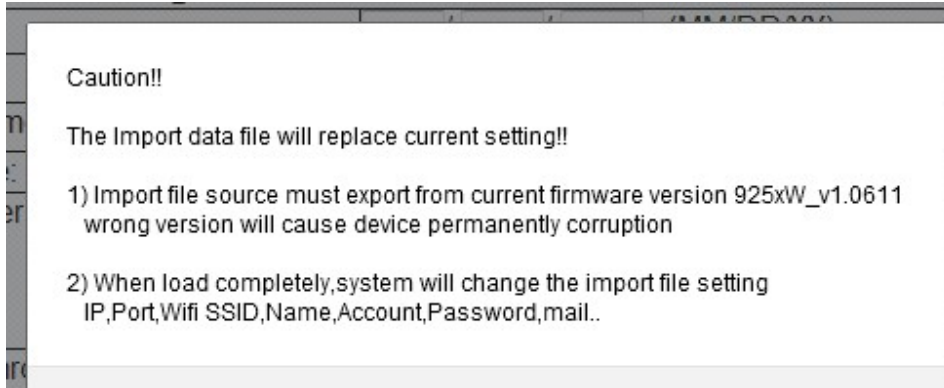
In this section , user can setup the date , time , current time , time zone , NTP server and sync with NTP to get the time synchronization .

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 .

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 Information

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 .**



- 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			
<b>System</b>			
System Up Time	16 hours, 7 mins, 58 secs	MAC Address	00:76:50:00:00:FC
Firmware Version	v1.00_291	Hardware Version	(Jan 10 2018)
<b>WAN</b>			
WAN IP Address	0.0.0.0	Ethernet Port	80
Default Gateway	192.168.100.1	Internet Port	80
Primary DNS	127.0.0.1	Secondary DNS	168.95.1.1
<b>LAN</b>			
Connected Type	DHCP		
Local IP Address	192.168.100.137		
Local Netmask	255.255.255.0		
<b>Other Information</b>			
SNMP	Disable		
ModBusTCP	Disable		
BacnetIP	Disable		
Telnet	Enable		
UPNP	Disable		
IPSERVICE & CNT	Disable		
CNT2	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 :

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

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 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, .  
**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 webpage 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 #41 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 l.....: display this help
[-s | --setpower p6=0011 or p6x=1(x=1,2,3,4)l.....: turn on/off ports on the d
evice
[-p | --getpower l..: get the on/off status of the device
[-c | --current l.....: get the current value of the device
[-t | --temp l.....: get the temperature value of the device
[-v | --version l.....: 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 9858MT only .

## **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 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 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 ).