

IP Power 9858 MT

User Manual



Version: V1.02
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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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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 Edge, 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 (Web API) 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, **IPv6**,SNMP(MIB),**mDNS**, 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. Web API : 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 :
 - WebAPI 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
Overoad 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
Regukatory Approvals	CE (LVD)
Warranty	Standard 1 year

2.3 Minimum System Requirements

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

2.4 Package Contents

9858MT Unit x 1	
Guide for online CD direction : include software QI and manual	

2.5 Interface

Front View

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

Rear View

● 9858MT-S :



● 9858MT-T :



Interface from Left to right :

4 outlets	Connect up to 4 individual outlets to be controlled by the 9858MT. Ports sequence as 4 / 3 / 2 / 1 . ● 9858MT-S : IEC320 socket , 10A / 240VAC ● 9858MT-T : NEMA socket , 15A / 100VAC
Power Input & Fuse socket 	In this socket, there are one power input and one fuse socket . ● 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. TYPE: 10A 250V (9858MT-S) or 15A 250V (9858MT-T)
Power Switch	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.

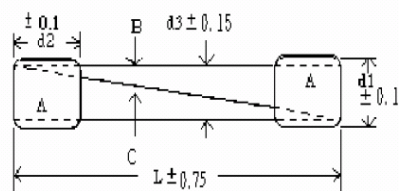
● Fuse replacement

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

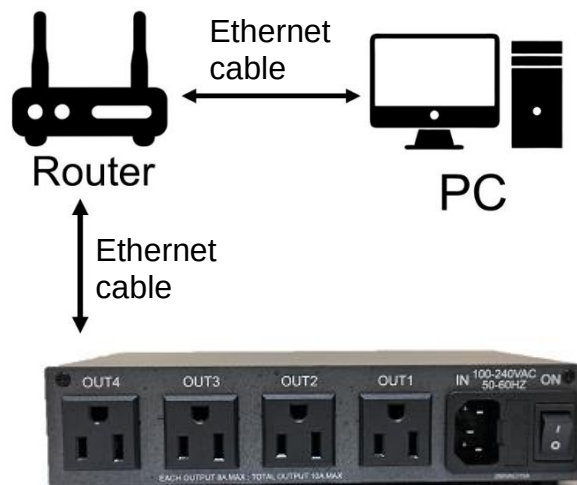
Before hardware connection, please make sure that there is no more than 2 network card (include dynamic network card). If there are more than two network card in your PC. You may not get the IP address of 9858MT

The default setting of 9858MT's IP is by DHCP assigned by Router. The connection sequence is different as connect to Router or connect to PC directly.

Please refer following procedure :

A. 9858MT ----- Router ----- PC (with Web browser)

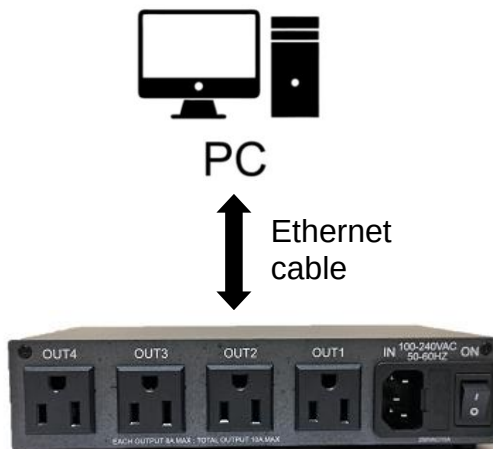
- 1.) Connect the Ethernet cable (RJ45) to the 9858MT to your local area network.
- 2.) Then connect the power cable into the power input port of the 9858MT.
- 3.) Connect the device that you would like to control to the output plug at the side of the 9858MT.
- 4.) Switching the power source to ON status, 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



B. 9858MT ----- PC (with Web browser)

If you select to connect to PC directly, please connect the RJ45 cable to 9858MT after 1 minutes as power on of the 9858MT device. power hear the beep sound of 9858MT DO NOT connect the RJ45 as power ON

- 1.) Connect the power cable to 9858MT and press the power switch to ON
- 2.) After 9858MT power on for around 45 seconds, there is a short beep sound for 9858MT which means the system reboot successfully.
- 3.) Then Connect the Ethernet cable (RJ45) to the 9858MT to your PC.
- 4.) Execute the software IPEDIT.exe to get the IP as **192.168.1.168**
- 5.) Please make sure the IP address of you PC is also 192.168.1.X / XX/XXX or you may notlog in the 9858MT webpage in 192.168.1.168



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)

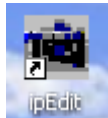
IP Power Center *(For multiple IP Power devices control purpose)



- 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.

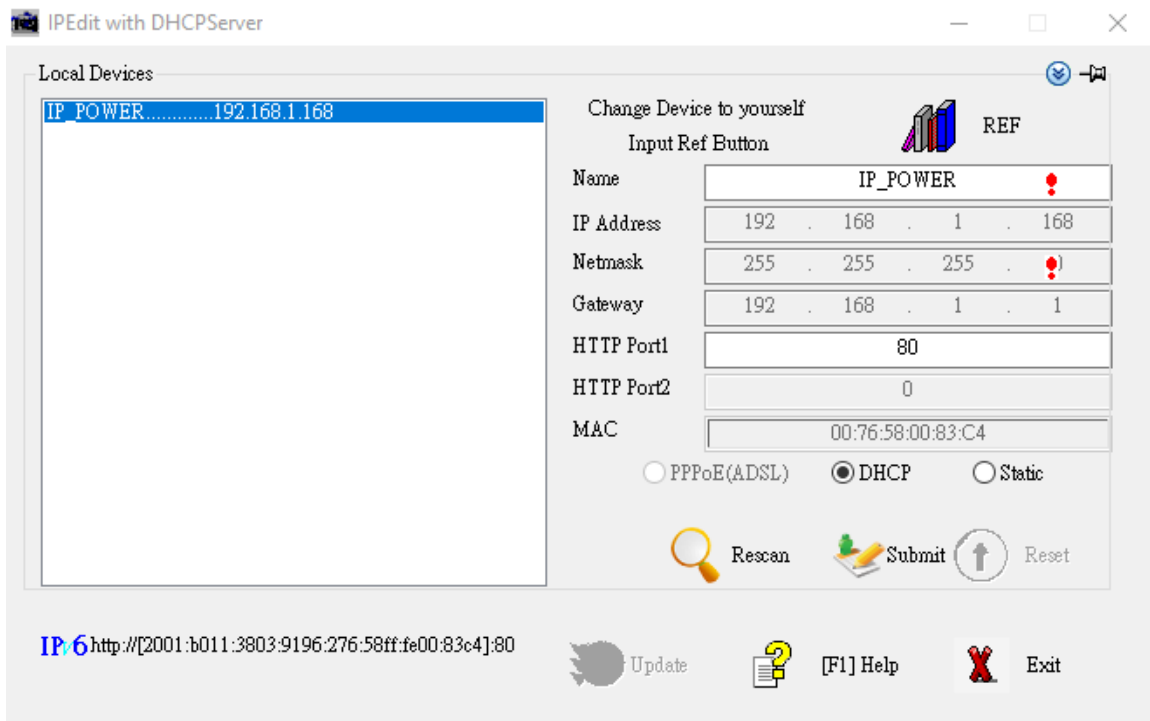
IP Power 9858MT Default Login / Password

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

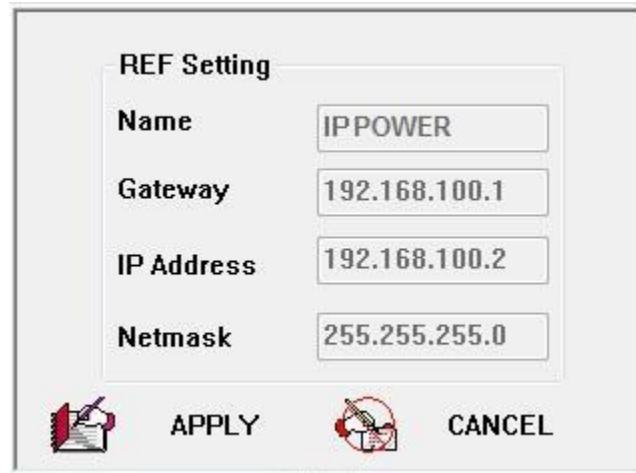
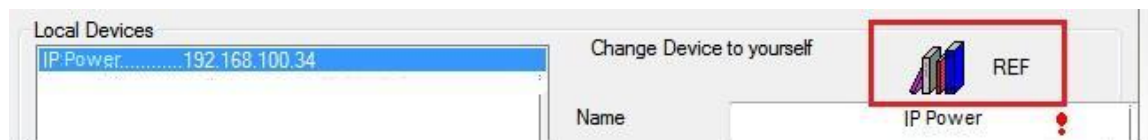
- 4.) Press the “ Rescan ” button to see if changes have been made.
- 5.) Double click on the device in the local device section and an IE web browser with the device login will pop up.
- 6.) Type in the default Login and IP Address to enter the device.

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.



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

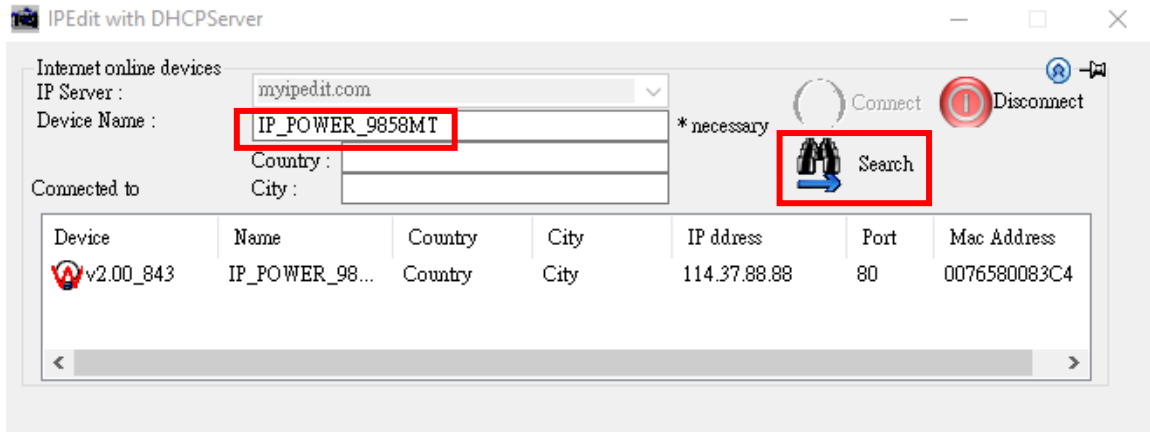
IP Service is a function which allows user to search for the device easily without having to remember long complicated IP address. Instead, if user know the device's name of user IP Power device and user can easily find IP Address with IP Service. **To log in the webpage of 9858MT on Internet , user 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_MT, and user can search the device easily :



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

3.3.4 mDNS connection

You can log in to your IP9858MT without using its IP address. With mDNS support, you only need to type: "ippowerXX.local" to access the 9858MT web UI.

Please locate your MAC address, which is on the side of your device.

Or find the MAC address in **"System → information"**

Use the last two digits of the IP9858MT MAC address to connect.

To find your mDNS, please move to **P.59(4.5.2)** first, and follow the instructions below.

(1) Find your device's MAC address, which is located on the side of your device.

MAC example: 007658006B55

(2-2) Open any web browser (recommend Chrome, Edge)

(2-3) In the address bar, type " ippowerXX.local ", where XX is the last two digits of your 9858MT MAC address.

Example: If the MAC address is 007658006B55, type " ippower55.local "

After typing the address in your browser's address bar, press enter. You will see the login screen. Indicating that you have successfully connected to your IP9858MT.

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 of the Menu, 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

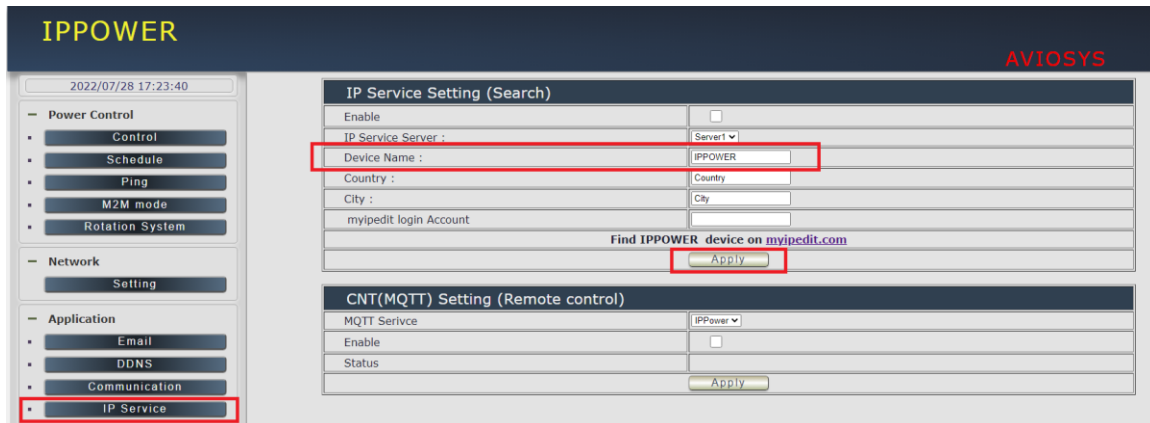
System : Management, Information, SysLog & Firmware

Logout

4.1 Top Column

4.1.1 Device name

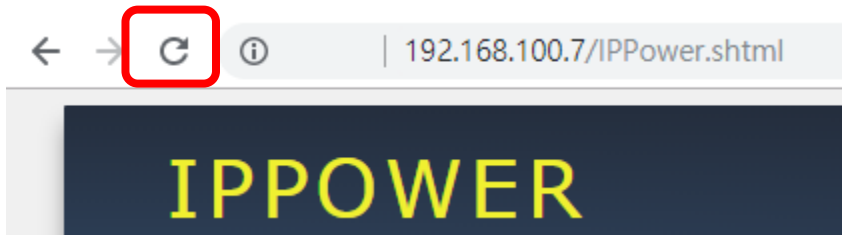
This section show the device name. You can change the device name here : Application → IP Service → Device name Change name “ IP POWER 9858MT “ as “Enjoy 9858MT “



The screenshot displays the IPPOWER web interface. On the left, a sidebar menu has the 'IP Service' option highlighted with a red box. The main content area shows the 'IP Service Setting (Search)' form. In this form, the 'Device Name' field is highlighted with a red box and contains the text 'IPPOWER'. Below the form, there is a link 'Find IPPOWER device on myipedit.com' and an 'Apply' button, which is also highlighted with a red box. The top of the interface shows the 'IPPOWER' logo and the 'AVIOSYS' brand name.

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 .

2022/07/28 17:18:28

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. On the left is a sidebar with a tree view containing 'Power Control', 'Network', 'Application', and 'System'. Under 'System', 'Management' is selected and highlighted with a red box. The main content area is titled 'System Management' and contains several settings sections: 'Administrator Settings' (Account: admin, Password: ****, Role: Admin), 'Language Settings' (Language: English), 'Web Server Settings' (Https: Port 443, Http, Enable Self Signed Certificate), and 'NTP Settings' (highlighted with a red box). The 'NTP Settings' section includes fields for Date (07 / 28 / 2022), Time (17 : 23 : 53), Current Time (Thu Jul 28 17:23:52 GMT 2022), Time Zone (GMT+0800/ChinaCoast HongKong), NTP Server (pool.ntp.org), and Sync with NTP (Every 1 hours). Each section has an 'Apply' button.

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:

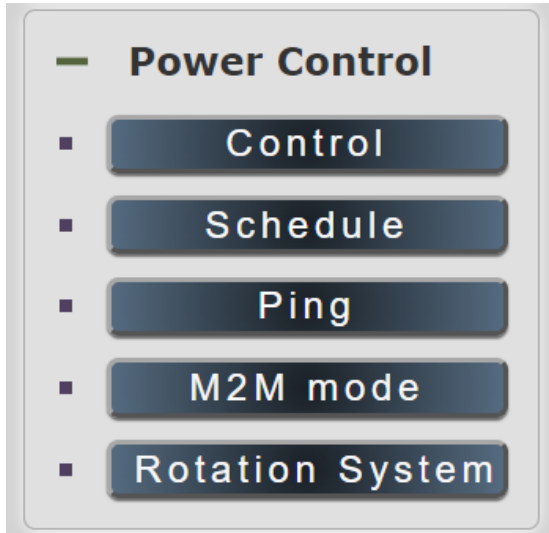
BusyBox v1.12.1 (2019-07-08 01:01:56 PDT) built-in shell (ash)
Enter 'ioctrl -h' for a list of built-in commands.

# 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.

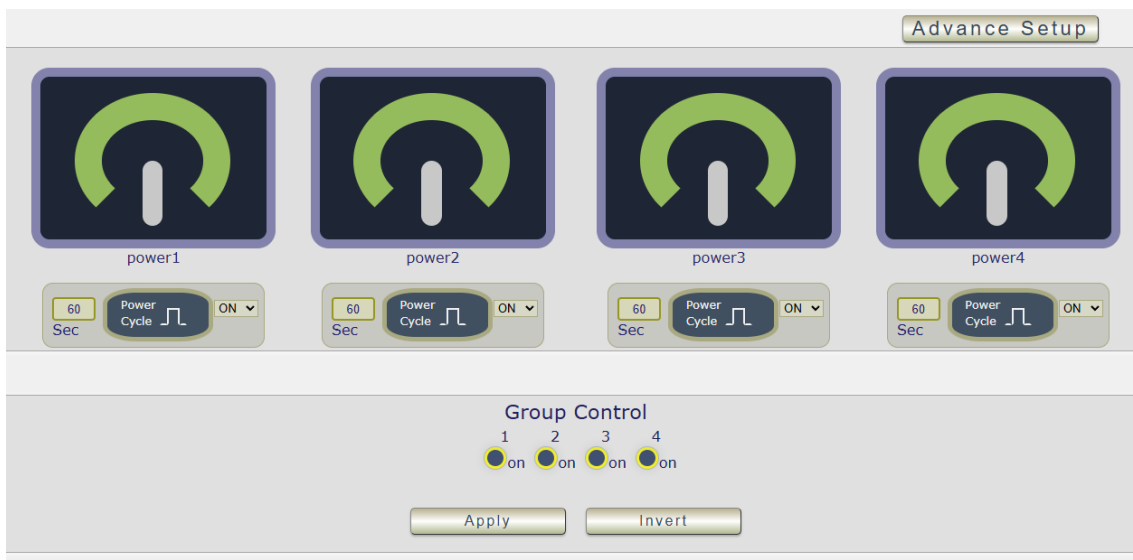
There are 5 sections: Control, Schedule, Ping, M2M mode, Rotation System



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 :



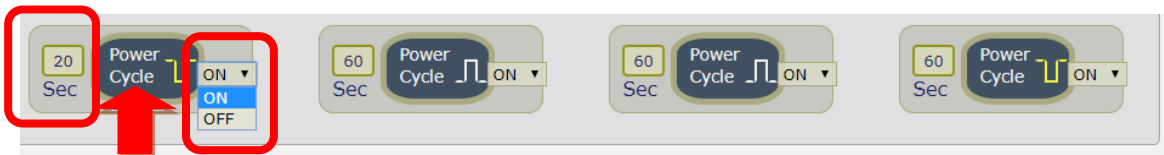
User can do the following 3 basic operation in this page :

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

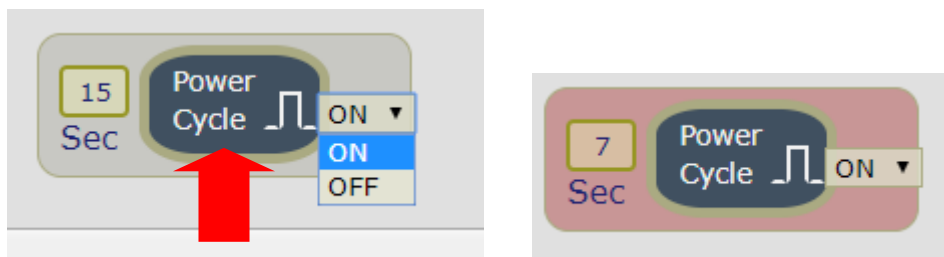


2 Power Cycle : Manually Control the relay delay some times to turn ON or OFF .
The relay cycle time can be set from 1 to 9999 seconds

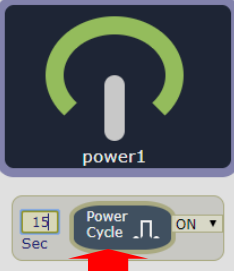


- As ON, Select OFF and press "Power cycle " then the outlet status is ON → OFF.
- As ON, Select ON and press "Power cycle " then the outlet status is ON → OFF → ON.
- As OFF, Select ON and press "Power cycle " then the outlet status is OFF → ON.
- As OFF, Select OFF and press "Power cycle " then the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

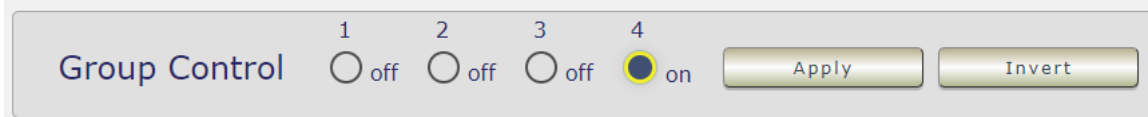
User can setup the time and the final status in power cycle as ON / OFF



For example : (sec = seconds)

	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. ON (3 sec) → OFF
	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. OFF → ON (15 sec) → OFF
	Original Outlet as “ OFF ”, select final status as “ ON ” & fill 15 sec. After press “ power cycle ” button, the outlet will turn OFF for 15 seconds and then turn ON. OFF (15 sec) → ON
	Original Outlet as “ ON ”, select final status as “ ON ” & fill 10 sec . After press “ power cycle ” button, the outlet will turn OFF for 10 seconds and then turn ON. ON -- > OFF (10 sec) → ON

- 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	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☐	☐	☐	☐
Beep Alert	☐	☐	☐	☐
Power Cycle Time	60 Seconds	60 Seconds	60 Seconds	60 Seconds
Default Power Delay ☐	11 Seconds	12 Seconds	13 Seconds	14 Seconds
Default Power Status	LAST	LAST	LAST	LAST
Apply				

Power interval	
Enable ☐	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:

Port Name Setting			
Outlet1	Outlet2	Outlet3	Outlet4
power1	power2	power3	power4

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



B.2 Notification setting

User can do several notification here.

Notification Setting				
Name	power1	power2	power3	power4
Forbidden off manually	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☒	☒	☒	☒
Beep Alert	☒	☒	☒	☒
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 & power 4 for be disable

Notification Setting				
Name	power1	power2	power3	power4
Forbidden off manually	☒	☐	☐	☒

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	☐	☐	☐	☐
Forbidden Power cycle	☒	☒	☐	☐

Advance Setup

power1

60 Sec
Power Cycle
ON

power2

60 Sec
Power Cycle
ON

power3

60 Sec
Power Cycle
ON

power4

60 Sec
Power Cycle
ON

- Email Alerts :

User 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	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☐	☒	☒	☐

- Beep Alarm Setting:

User can setup the operation beep (short time beep) sound here.

Notification Setting				
Name	power1	power2	power3	power4
Forbidden off manually	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☐	☐	☐	☐
Beep Alert	☐	☐	☒	☒

- **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	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☐	☐	☐	☐
Beep Alert	☐	☐	☒	☒
Default Power Status	LAST ▼ OFF ON LAST	LAST ▼	LAST ▼	LAST ▼

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)
☐	3 Sec

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	Send
power2	000000000000	Send
power3	000000000000	Send
power4	000000000000	Send

☒ 1 Duration Mode ☐ Once ☐ Every Week ☒ Every Day

Date: From to

Time : : (Hr:Min:Sec)

Schedule power action ☒ Schedule Power Roation

Jason ✓ OFF ON OFF CYCLE WOL SOL Reboot	Tony ✓ OFF	power3 ✓ OFF	power4 ✓ OFF
--	---------------------------	-----------------------------	-----------------------------

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)

Conditional Mode ☐ Single ☒ OR ☐ And

IP & Host Name	Failed times then action	Repeat	
www.baidu.com Check	03	Stop	Rule No1
www.google.com Check	03		
www.yahoo.com Check	03		
www.sony.com Check	03		

Ping failure action ☒

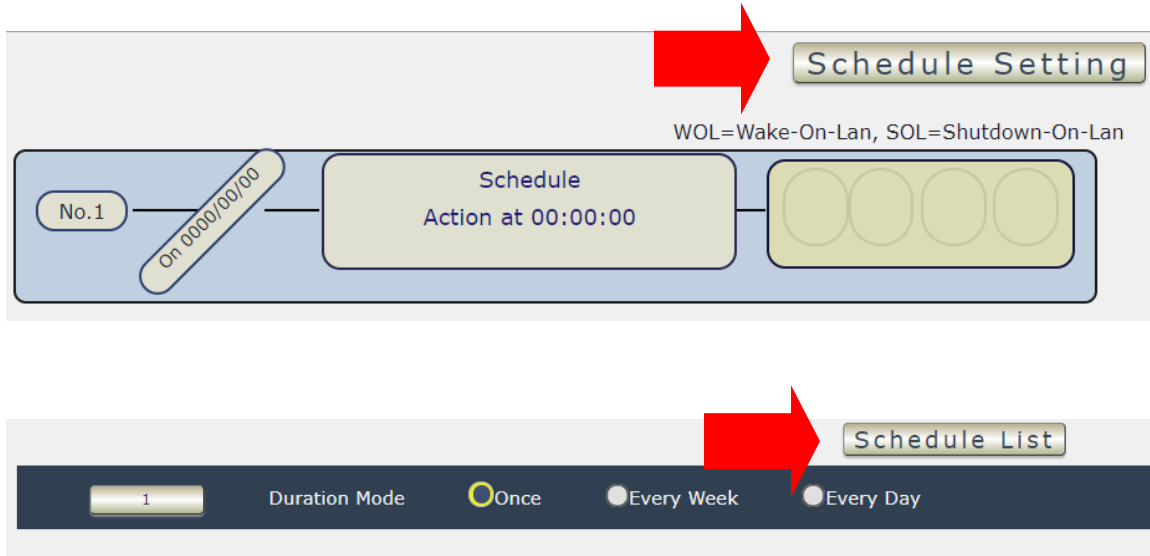
Jason ✓ ON OFF CYCLE WOL SOL Relink	Tony ✓ OFF	power3 ✓ OFF	power4 ✓ OFF
--	---------------------------	-----------------------------	-----------------------------

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 ” :



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.

The screenshot shows the 'Schedule List' page. At the top, there is a 'Duration Mode' section with three radio buttons: 'Once', 'Every Week', and 'Every Day'. The 'Every Week' button is selected. Below this, there is a 'Weekly select' section with checkboxes for each day of the week: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. The 'Tuesday' and 'Thursday' checkboxes are checked. Below the 'Weekly select' section, there is a 'Date: From' field with a dropdown menu showing 'Jan' and '2018', and a 'to' field. Below the date fields, there is a calendar view showing the months of January, February, and March 2018. The calendar view shows the days of the week (Su, Mo, Tu, We, Th, Fr, Sa) and the dates. The date '19' in January is highlighted in green, and the date '26' in January is highlighted in red.

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 ☒

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	<input checked="" type="button" value="Relay CYCLE 1"/> <input checked="" type="button" value="Relay On 2"/> Relay Off 3 SOL 4
No.2	On 0000/00/00	Schedule Action at 00:00:00	Relay CYCLE 1 Relay On 2 Relay Off 3 SOL 4

- **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 :

Schedule List

1 Duration Mode ☐ Once ☒ Every Week ☐ Every Day

Weekly select:

☒ Sunday ☒ Monday ☐ Tuesday ☒ Wednesday ☐ Thursday ☐ Friday ☐ Saturday

Date: From 2022/06/01 to 2022/07/04

Time 17 : 18 : 17 (Hr:Min:Sec)

Schedule power action ☐ Schedule Power Roation **Roation-Start**

ON Period 1 min

Interval 1 min

Repeat the mutichannel powe cycling in order during the specified period

Rotation Stop:

Date: From 2022/06/01 to 2022/07/04

Time 17 : 18 : 17 (Hr:Min:Sec)

Schedule power action ☐ Schedule Power Roation **Roation-Stop**

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 :

The screenshot shows the 'Ping Setting' page with a 'Ping List' button highlighted by a red arrow. The page is divided into two main sections: 'Global Ping Base Setting' and 'Conditional Mode'.

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)

Apply

Conditional Mode ☐ Single ☐ OR ☒ And

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

Ping failure action ☐

Apply Rule Delete

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

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.

The screenshot shows the 'Ping List' configuration page. The 'Global Ping Base Setting' section includes fields for 'Ping Interval' (5 Sec.), 'Response Time Out' (900 ms.), 'Ping After Action Delay' (5 Sec.), and 'Action Max repeat times' (1, 0=non stop). Below this is the 'Conditional Mode' section with radio buttons for 'Single', 'OR', and 'And' (selected). It contains a table with columns for 'IP & Host Name', 'Failed times then action', and 'Repeat'. The table has four rows with 'www.yahoo.com' and 'www.google.com' as host names. A red arrow points to the 'Rule No1' button on the right side of the table.

2. Ping Base Setting :

The screenshot shows the 'Ping List' configuration page, focusing on the 'Global Ping Base Setting' section. It includes fields for 'Ping Interval' (5 Sec.), 'Response Time Out' (900 ms.), 'Ping After Action Delay' (5 Sec.), and 'Action Max repeat times' (1, 0=non stop). A red arrow points to the 'Apply' button at the bottom of this section.

- Ping Interval : The number of seconds (Sec., 1~9999) between each ping.
- Response Time Out : The number of milliseconds (ms. ,1~9999) 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: Setup the times of Action after Ping Failure.
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 ☐ Single ☐ OR ☒ And

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

Ping failure action ☐

Rule No1

● Conditional 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.

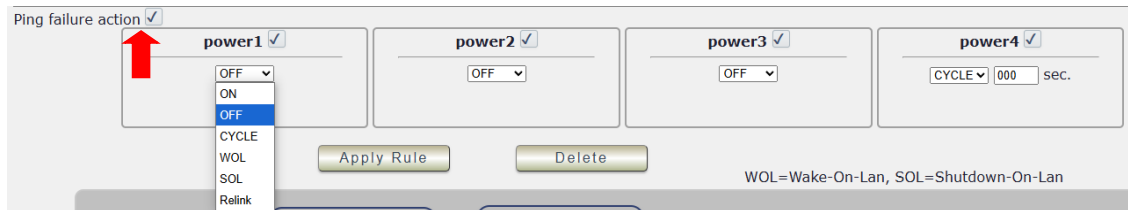
Conditional Mode ☐ Single ☐ OR ☒ And

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

Ping failure action ☐

Rule No1

- 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, CYCLE,WOL,WOL or Relink ” function.

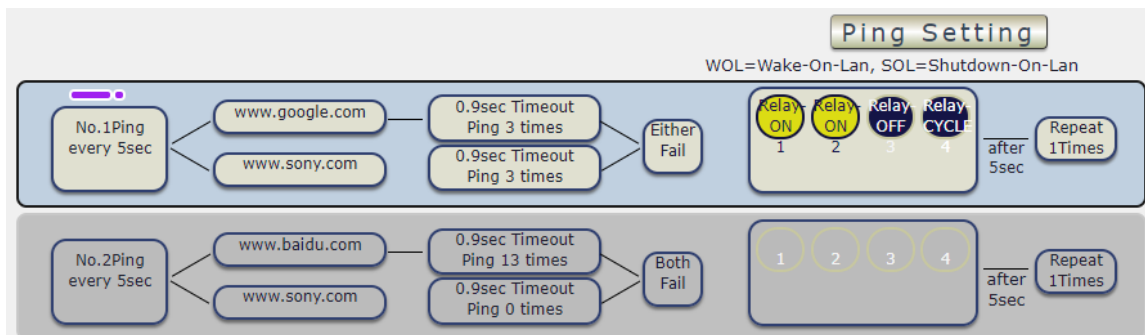


- ON
 - OFF
 - Cycle: It means outlets turn OFF to ON
 - WOL: Wake On Lan
 - SOL: Shutdown On Lan
 - Relink: It means to reconnect the network. If the setting is DHCP, 9858MT may get a new IP address as reconnect to the router.
- P.S: If the network connection is not stable or change it's IP on internet 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.

M2M(LAN) Setting	
Enable	☐
Host	
Port	80
User	admin
Password	

Apply

- 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 .

M2M(LAN) Setting

Enable	☐
Host	
Port	80
User	admin
Password	*****

Apply

M2M(Internet) Setting

M2M machine outputs are corresponding to another machine outputs

Local

MQTT M2M Enable ☐

Controlled Device Setting

MAC	User	Password	
007623000310	admin	*****	Test

Apply

- 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.

2022/07/28 17:18:28

Power Control

- Control
- Schedule
- Ping
- M2M mode
- Rotation System

Network

- Setting

Application

- Email
- DDNS
- Communication
- IP Service**

IP Service Setting (Search)

Enable	☐
IP Service Server :	Server1
Device Name :	IPPOWER 9858
Country :	Country
City :	City
myipedit login Account	

Find IPPOWER 9858 device on myipedit.com

Apply

CNT(MQTT) Setting (Remote control)

MQTT Service	IPPower
Enable	☐
Status	

Apply

- 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	
007623000310	admin		<i>Test</i>

- 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	☐
ON Period	1 min
Interval	1 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) .

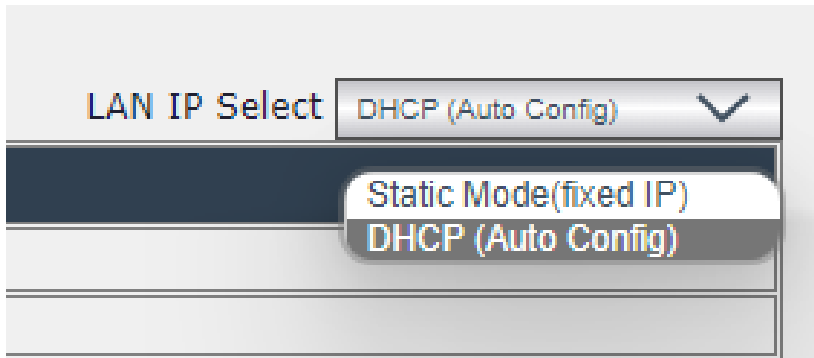
The above action sequence will keep rotation at outlet 1 2 3 4.

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



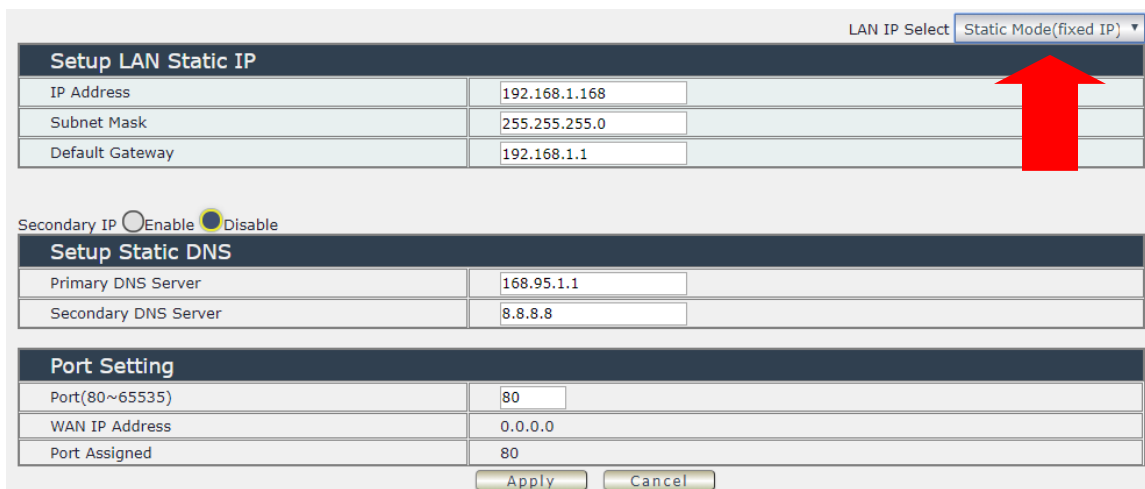
A screenshot of the 'LAN IP Select' dropdown menu. The menu is open, showing two options: 'Static Mode(fixed IP)' and 'DHCP (Auto Config)'. The 'DHCP (Auto Config)' option is currently selected and highlighted in a light blue color. The dropdown is part of a larger interface with a grey background.

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 the 'Setup LAN Static IP' configuration form. The form is divided into three main sections: 'Setup LAN Static IP', 'Setup Static DNS', and 'Port Setting'. The 'LAN IP Select' dropdown at the top right is set to 'Static Mode(fixed IP)'. A red arrow points to this dropdown. The 'Setup LAN Static IP' section contains fields for 'IP Address' (192.168.1.168), 'Subnet Mask' (255.255.255.0), and 'Default Gateway' (192.168.1.1). The 'Setup Static DNS' section contains fields for 'Primary DNS Server' (168.95.1.1) and 'Secondary DNS Server' (8.8.8.8). The 'Port Setting' section contains fields for 'Port(80~65535)' (80), 'WAN IP Address' (0.0.0.0), and 'Port Assigned' (80). At the bottom, there are 'Apply' and 'Cancel' buttons. The 'Secondary IP' section is disabled, indicated by the 'Disable' radio button being selected.

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

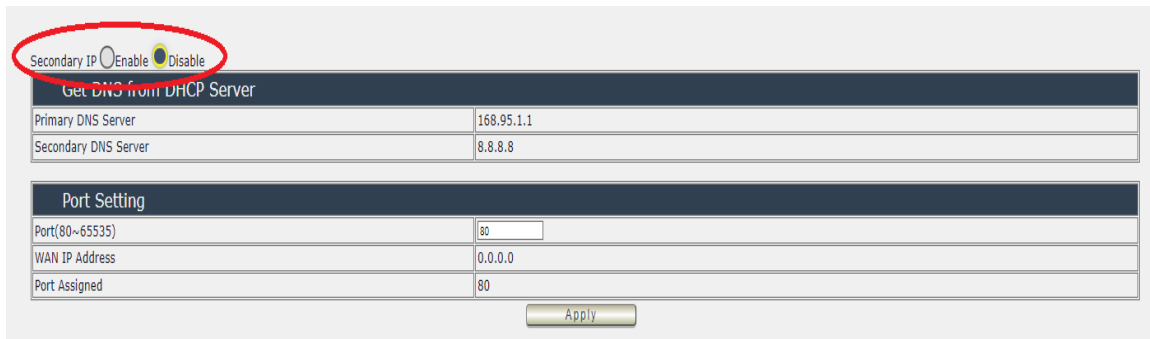
Setup Static DNS	
Primary DNS Server	168.95.1.1
Secondary DNS Server	8.8.8.8

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

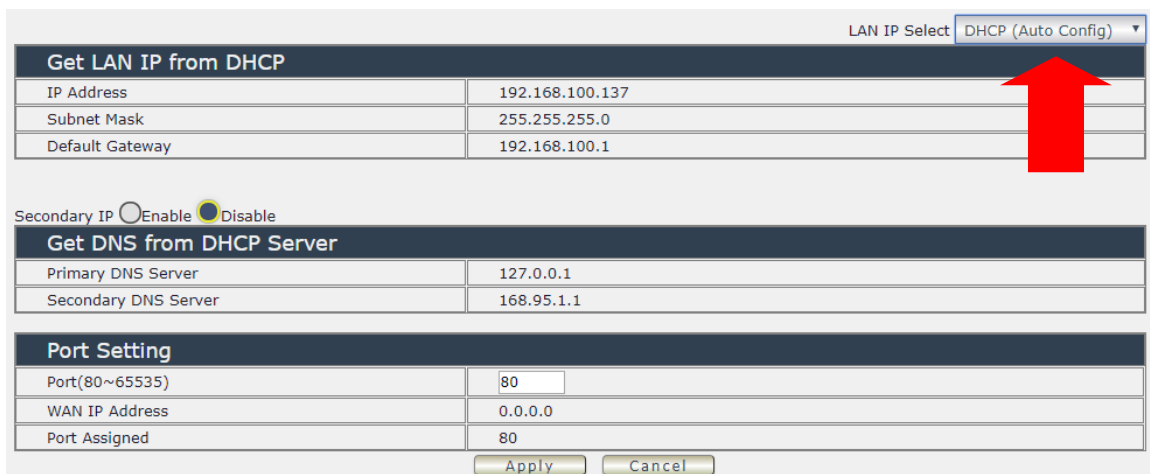
This allows the 9858MT to obtain an IP Address automatically from user's server connected to Internet. Recommended for non- advance users.

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

VPN Type select: PPTP

PPTP Mode	
PPTP	☐ Enable ☒ Disable
Pptp Server IP Address	pptp_server
User Name	pptp_user
Password	*****
VPN IP Address	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.

LAN IP Select: UPNP

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

Apply Cancel

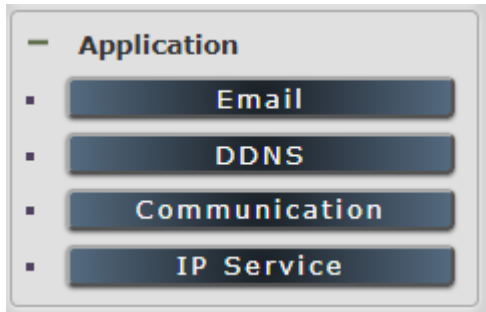
UPNP	
Enable	☐
Port	44615 (81~65535)

Apply

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

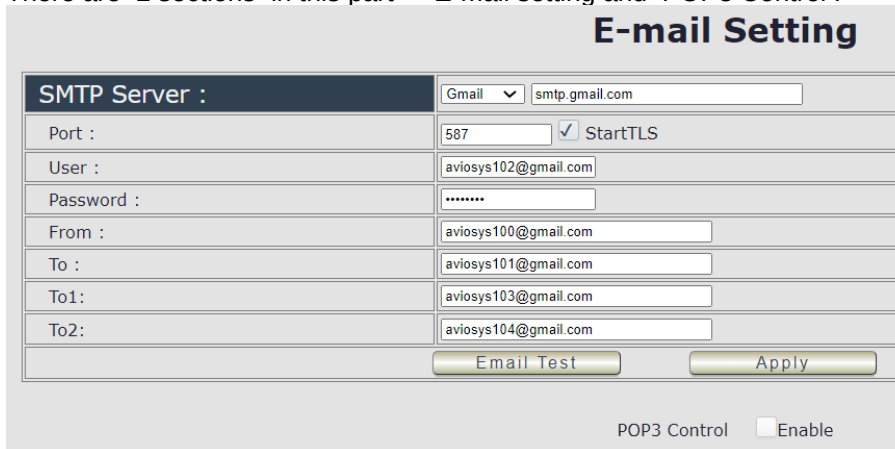
Please do fill up the correct DNS server for sending / receiving email (alarm) .

4.4 Application Settings



4.4.1 Email

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

A screenshot of the "E-mail Setting" form. The title "E-mail Setting" is at the top right. The form contains several input fields and checkboxes. The "SMTP Server" dropdown is set to "Gmail" with "smtp.gmail.com" in the adjacent text box. The "Port" is "587" and "StartTLS" is checked. The "User" is "aviosys102@gmail.com". The "Password" is masked with "*****". The "From" address is "aviosys100@gmail.com". There are three "To" fields: "To" is "aviosys101@gmail.com", "To1" is "aviosys103@gmail.com", and "To2" is "aviosys104@gmail.com". At the bottom right are "Email Test" and "Apply" buttons. At the very bottom, there is a "POP3 Control" section with an "Enable" checkbox that is currently unchecked.

● 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 :

Get Email alarm as outlet changed :

The screenshot shows the 'Power Control' web interface. On the left is a sidebar with navigation options: Power Control (Control, Schedule, Ping, M2M mode, Rotation System), Network (Setting), and Application (Email, DDNS, Communication). The main area is titled 'Power Control' and contains two sections: 'Port Name Setting' and 'Notification Setting'.

Port Name Setting

Outlet1	Outlet2	Outlet3	Outlet4
power1	power2	power3	power4

Notification Setting

Name	power1	power2	power3	power4
Forbidden off manually	☐	☐	☐	☐
Forbidden Power cycle	☐	☐	☐	☐
Email Alerts	☒	☒	☒	☒
Beep Alert	☒	☒	☒	☒
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

An 'Apply' button is located at the bottom right of the Notification Setting section.

Step 1 : After setup the email setting in 9858MT, please press “ Apply ” button to check if show message “ Success ”

Step 2 : Press the “ Email Test ” button to check if show message “ Success ”

The screenshot shows the 'SMTP Server' configuration page. At the top left is the 'MT' logo. A red arrow points to a message box that says '192.168.100.14 顯示 Success'. Below the message box is a '確定' (Confirm) button. The main form contains the following fields:

SMTP Server :

- Port : 587 ☒ StartTLS
- User : jasonliao70
- Password :
- From : aviosys1@gmail.com
- To : aviosys101@gmail.com
- To1: aviosys102@gmail.com
- To2: aviosys103@gmail.com

At the bottom are two buttons: 'Email Test' and 'Apply'.

* Can't send to Gmail

Due to the Google update it's policy in recent years, the user have to activate the App password in 2 Step Verification to connect with gmail.

Please refer to the tutorial below:

Aviosys mail setting video tutorial link, start gmail in 0:58:

<https://www.youtube.com/watch?v=xSjtSuQz2Rg>

Move to your (1) Google accounts → (2) login→ (3) manage your google account

→ (4) Security → (5) 2 Step Verification → (6) find App password.

App password will be your setting password for gmail setting, please save your password when it establish.

If you can't find the App password in 2 Step Verification,
click the link below and click → **“Create and manage your app passwords”** :

<https://support.google.com/accounts/answer/185833?hl=zh-Hant>

● 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

Apply

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

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 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

Clipboard: Cut, Copy, Paste, Format Painter

Basic Text: Font face (新細明體), Size (12), Bold, Italic, Underline, Text color, Background color, Bulleted list, Numbered list, Indent, Decrease indent, Increase indent, Decrease indent, Increase indent, Link, Unlink, Address Book, Check Names

Attach File, Attach Item, Business Card, Calendar, Signature, Follow Up, Permission, High Import, Low Import, Options

To: aviosys@gmail.com

Cc:

Bcc:

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 ”

CTRL Format :

☒ Subject ☐ Body

Apply

Example:

E-Mail Test:

yourmail

Subject:

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

Body:

- Execute e-mail command by “ Body ”

CTRL Format :

☐ Subject ☒ Body

Apply

Example:

E-Mail Test:

yourmail

Subject:

Body:

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

Submit

4.4.2 DDNS

The DDNS section allows user to setup the 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.

The screenshot shows the 'DDNS' configuration page. At the top, there's a title 'DDNS'. Below it is a section titled 'DDNS Setting'. This section contains several input fields: 'Enable' (a checkbox), 'Service Provider' (a dropdown menu currently set to 'None'), 'Account' (a text input field), 'Password' (a text input field), and 'Domain Name' (a text input field). A dropdown menu is open for the 'Service Provider' field, showing options: 'None', 'Dyndns.org', 'freedns.afraid.org', 'www.zoneedit.com', and 'www.no-ip.com'. At the bottom of the form are two buttons: 'Apply' and '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

The screenshot shows the 'Communication Setting' page. It has a title 'Communication Setting:'. Below the title are four sections, each with its own settings:

- SNMP:** Includes fields for 'Enable' (checkbox), 'SNMP version' (dropdown, set to '1.2c'), 'Community Authority' (dropdown, set to 'N/A'), 'Community Name' (text input, set to 'private'), 'Trap type' (dropdown, set to 'N/A'), 'Host[192.168.1.1:162]' (text input, set to '192.168.1.1:162'), 'Trap Community' (text input, set to 'private'), and 'MIB file' (text input, set to 'IPPOWER-MIB.txt'). An 'Apply' button is at the bottom.
- TELNET:** Includes fields for 'Enable' (checkbox, checked), 'SSH' (checkbox, checked), and 'SSH-KEY' (text input, with a 'Renew' button next to it). An 'Apply' button is at the bottom.
- Modbus TCP:** Includes fields for 'Modbus Enable' (checkbox), and 'Port' (text input, set to '502'). An 'Apply' button is at the bottom.
- BACnet:** Includes fields for 'Enable' (checkbox) and 'Port' (text input, set to '47808'). An 'Apply' button is at the bottom.

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	☐
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
Apply	

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

Communication Setting:

SNMP:	
Enable	☐
SNMP version:	1,2c ▾
Community Authority :	N/A ▾
Community Name :	private
Trap type :	N/A ▾
Host(192.168.1.1:162) :	N/A v1 trap v2c trap v2c inform
Trap Community :	
MIB file	IPPOWER-MIB.txt
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.

You can decide to enable/disable the SSH function

TELNET:	
Enable	☒
SSH	☒
SSH-KEY	Renew
Apply	

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

 Telnet 10.33.122.35

```
IP_POWER login: admin
Password:
```

 Telnet 10.33.122.20

```
#
# ioctl -h
**-----**
Usage: ioctl
[-h | --help ].....: display this help
[-s | --setpower p6=00110011 or p6x=1(x=1,2,3,4,5,6,7,8)].....: turn on/off ports on
[-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
[-r | --reboot ].....: System Restart
[-v | --version ].....: display version information
-----
# ioctl -s p6l=1
p6l ok
# ioctl -p
Power Status: 1, 0
# ioctl -s p6l=0
p6l ok
# ioctl -c
Current value: 0.0
# ioctl -t
Temperature value: 36.80
Fahrenheit value: 98.2
#
```

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

C =Current . T =Temperature

C. Modbus TCP

Modbus: We supply the TCP models of ModBus control

TCP Modbus	
Modbus Enable	☐
Port	502
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	☐
Port	47808
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	☐
IP Service Server :	Server1 ▾
Device Name :	IP_POWER
Country :	Country
City :	City
mylpedit login Account	
Find IP_POWER device on mylpedit.com	
Apply	

CNT(MQTT) Setting (Remote control)	
MQTT Service	IPPower ▾
Enable	☐
Status	
Apply	

A. IP Service & CNT Setting :

The IP SERVICE allow 9858MT to be accessed easily on the internet by our IP Power Center or IPEDIT. 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	☐
IP Service Server :	Server1 ▾
Device Name :	Server1 Custom
Country :	Country
City :	City
myipedit login Account	
Find IP_POWER device on myipedit.com	
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 #15 for the function of IP Server

IPEdit with DHCP Server

Internet online devices

IP Server : myipedit.com ▾

Device Name : IP_POWER_9858MT *necessary

Country :

City :

Connected to

Connect Disconnect

Search

Device	Name	Country	City	IP address	Port	Mac Address
v2.00_843	IP_POWER_98...	Country	City	114.37.88.88	80	

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.

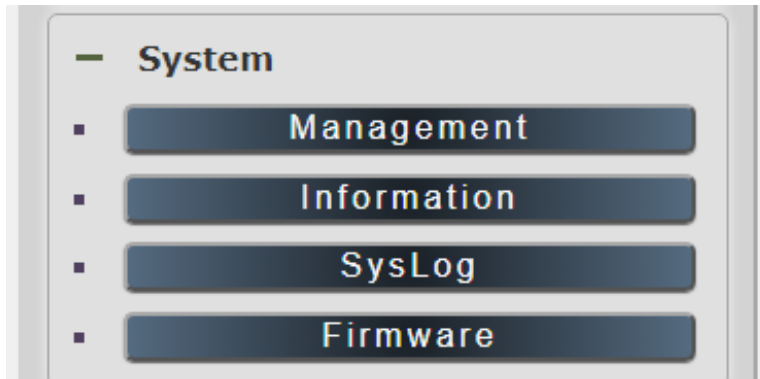
CNT(MQTT) Setting (Remote control)	
MQTT Service	IPPower ▼
Enable	IPPower
Status	Custom
	Google
	Azure
	AWS
Apply	

C. mDNS

User can decide to “Enable” or “Disable” the mDNS connection, to see how mDNS work, please refer to **P.16 (3.3.4)**

mDNS Setting	
Enable	☒
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	admin ☒ Admin ☐ Operator ☐ Viewer
Password	***** Apply

Language Settings	
Language	English Apply

Web Server Settings	
Https(Port:443)	☒
Http	☒
Enable Self Signed Certificate	☐
Apply	

NTP Settings	
Date	01 / 01 / 1970 (MM/DD/YY)
Time	08 : 49 : 09 (HH:MM:SS) Apply
Current Time	Thu Jan 1 08:49:08 GMT 1970 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 Apply

Import configuration files	
Location	選擇檔案 Import

System reset	
Export configuration file	Apply
Factory Reset	Apply
Reboot	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.

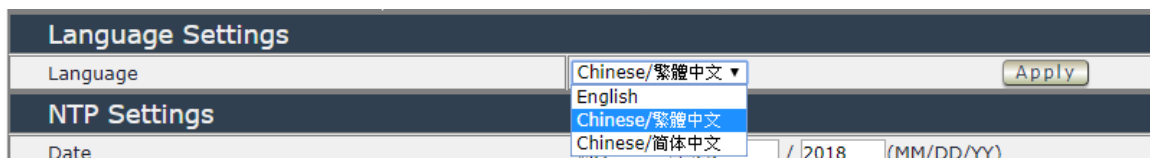
Default Setting of the Authorities :

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

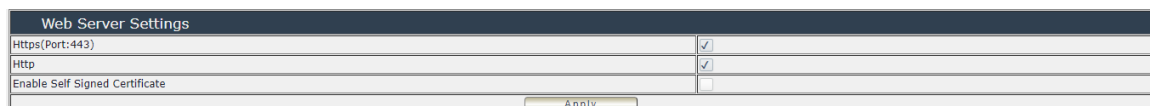
Language Settings

There are 3 language option of 9858MT .The default language 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) Apply
Current Time	Tue Jan 23 14:49:21 GMT 2018 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 Apply 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	選擇檔案 未選擇任何檔案 Import Cancel

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

Caution!! The Import data file will replace current setting!! 1) Import file source must export from current firmware version 925xW_v1.0611 wrong version will cause device permanently corruption 2) When load completely,system will change the import file setting IP,Port,Wifi SSID,Name,Account>Password,mail..
--

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

- Do NOT import DAT file which is not export form 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	Apply
Factory Reset	Apply
Reboot	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 31 min 0 sec	MAC Address	00:76:58:00:83:C4
Firmware Version		Hardware Version	4.4.1.8
MDNS	http://ippowerc4.local		
WAN			
WAN IP Address	114.37.88.88	Ethernet Port	80
Default Gateway	10.33.122.1	Internet Port	80
Primary DNS	168.95.192.1	Secondary DNS	168.95.1.1
LAN			
Connected Type	DHCP		
Local IP Address	10.33.122.35		
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		
mDNS	Enable		
IPSERVICE(Search)	Enable		
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	
Apply	
Refresh	Clear
System Log:	
<pre>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</pre>	

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.

* Before you update

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 support SNMP (MIB), Modbus /TCP and BACnet /TCP.

Please move to **page #49(4.4.3)** 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 way also for HTTPS

2. Command

set.cmd?cmd=

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

2.1 To get firmware version : getversion

<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 MACAddress: 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 #49(4.4.3)** to check and enable the function .

TELNET:	
Enable	☒
SSH	☒
SSH-KEY	Renew
Apply	

Ca. Telnet 10.33.122.35

```
IP_POWER login: admin
Password:
```

Ca. Telnet 10.33.122.20

```
#
# ioctl -h
**-----**
Usage: ioctl
[-h | --help ].....: display this help
[-s | --setpower p6=00110011 or p6x=1(x=1,2,3,4,5,6,7,8)].....: turn on/off ports on
[-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
[-r | --reboot ].....: System Restart
[-v | --version ].....: display version information
-----
# ioctl -s p6l=1
p6l ok
# ioctl -p
Power Status: 1, 0
# ioctl -s p6l=0
p6l ok
# ioctl -c
Current value: 0.0
# ioctl -t
Temperature value: 36.80
Fahrenheit value: 98.2
#
```

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

C =Current, T =Temperature

Command example:

command: help

```
# ioctl -h
**-----**
Usage: ioctl
[-h | --help ].....: display this help
[-s | --setpower p6=00110011 or p6x=1(x=1,2,3,4,5,6,7,8)].....: turn on/off ports on the device
[-p | --getpower ]...: get the on/off status of the device
[-r | --reboot ].....: System Restart
[-v | --version ].....: display version information
-----
```

***Note:** Power 1~Power 4 display from left to right.

command: setpower

On: p6x=1, Off: p6X=0

```
# ioctl -s p6l=1
index:0 value:ab is_Latch:0
p6l ok
# ioctl -s p6l=0
index:0 value:aa is_Latch:0
p6l ok
#
```

On: Power 1~4

```
# ioctl -s p6=1111
index:0 value:1 is_Latch:8
index:1 value:4 is_Latch:8
index:2 value:10 is_Latch:8
index:3 value:40 is_Latch:8
p6l ok,p62 ok,p63 ok,p64 ok,
#
```

Off: Power 1~4

```
# ioctl -s p6=0000
index:0 value:2 is_Latch:8
index:1 value:8 is_Latch:8
index:2 value:20 is_Latch:8
index:3 value:80 is_Latch:8
p6l ok,p62 ok,p63 ok,p64 ok,
#
```

command: getpower

```
# ioctl -p
Power Status: 1, 1, 0, 0
#
```

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 45 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 9858MT 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 .
- 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.

* If use Gmail, please refer page #46 to **set your “APP password”** in your google account.

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).