

IP Power 9820 MT

User Manual



Version: V1.00
(Firmware Version: 1.19_565)
Date Released: JAN. 2020

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

IMPORTANT NOTICE

1. IP Power 9820 MT 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 9820 MT in any fashion
5. Please contact the dealer If IP Power 9820 MT is not working properly.

Copyright © 2020 All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written consent of us.
All trademarks and products mentioned in this document are the properties of us.

Table of Content

1. INTRODUCTION	5
2. PRODUCT INFORMATION	6
2.1 Features :.....	6
2.2 Specification	7
2.3 Minimum System Requirements	8
2.4 Package Contents	8
2.5 Interface	8
Rear View	9
3. SETTING UP YOUR DEVICE	10
3.1 Before Starting	10
3.2 Hardware Connection	10
3.3 Software Installation	11
3.3.1 LAN connect by IP Search software “ IPEDIT “	12
3.3.2 Internet Setup.....	15
3.3.3 Using IP Service	15
4. WEB INTERFACE	17
4.1 Top Column	18
4.1.1 Device name	18
4.1.3 Time :.....	19
4.2 Power Control :.....	20
4.2.1 Control.....	20
4.2.2 Schedule.....	30
4.2.3 Ping.....	32
4.3 Network :.....	36
4.4 Application Settings :	38
4.4.1 Email.....	38
Step 3 : If message show “Fail “ , please turn ON the setting in your gmail account - Turn ON the function Less secure app access “	40
4.4.2 DDNS	45
4.4.3 Communication.....	45
4.4.4. IP SERVICE	49

4.5 System Setting :	51
4.5.1 Management	51
4.5.2 System Information	54
4.5.3 System Log	54
4.5.4 Firmware.....	55
5.OTHER WAYS TO CONTROL	56
5.1 CGI HTTP Commands	56
5.2 Telnet Control	58
6.FAQ :	59

1. Introduction

IP Power 9820 MT 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 , 9820 MT 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 Google Chrome , Safari and so on . There are App for **Android / iOS system** name **"IP Power "** for user to control the outlet power.

9820 MT allows user to remote control power up to 8 individual devices on/off / reboot via network . The total maximum current is up to **20AMP / 110V** or **15 Amp / 240V** .

Besides individual power control , user can also check the **current** consumption of each port , **voltage** and external **Temperature** value , LOG information & send LOG to assign IP(Syslog) . There is a LCD display show the IP and the other Voltage /Current /Temperature information

Support **SSL & SNMP**, user can use public email like Gmail / Hotmail / Yahoo mail to get the advice of outlet status change. User can also **control by** e-mail without doing port forwarding / port mapping and search the other IP Device in webpage directly .

Not only control manually, 9820 MT supports **Auto Ping , Time Scheduler** which is more suitable for factory / office / home automation . 9820 MT can auto control one outlet as **DI get status change** (Dry contact) Or use the **IR remote controller** - without web browser operation

User can connect **USB Power Bank** , has one **12V 1A power out** (un- controllable) . has **QR code** of different network to log in fast and easy , can BACKUP the setting and export the same setting to multiple IP POWER to make the installation procedure more efficient , apply Own Language display in webpage .

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

* 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. 8 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** / SSL , SNMP(MIB), NTP, DHCP, TCP/IP, SMTP, UDP, DDNS.
5. **HIGH Power usage inquire** :
 - Adopt high grade Component & Relay for better quality / performance / durability
 - Maximum current per outlet : **15 Amp / 100VAC (IEC 320) or 10 Amp / 240VAC (NEMA)**
 - Maximum current total 8 outlets: **20 Amp / 100VAC or 15 Amp / 240VAC**
6. Detect the consumed of Current , Voltage & external Temperature
 - Voltage Range : 90 ~ 260VAC
 - Current Range : 1 ~ 10 Amp
 - Temperature : -20 ~ 70°C / -4 ~ 158°F .And Alarm as over setting by beeper and by e-mail
7. Handheld **IR Remote controller** to control without PC
8. **SYSLOG** : Support Log function & send to assign IP address
9. 2 USB ports
 - A.. USB1 for :
 - USB Temperature& Humidity Sensor 8871 & USB e-Meter 8870
 - USB to RS232 data transfer. (need external board)
 - 4G / NB-IOT Dongle - HUAWEI E8372
 - B. USB 2 for Power Bank Input
10. Time Schedule - can pre-set a suitable time to turn power on / off automatically .
11. **Auto Ping** for network control & segment management automatically
12. Higher grade Component & Relay for better quality / performance / durability
13. **Back Up** for quick setup for multiple devices like Time Schedule, Network Setting.
14. Support public e-mail -- @gmail. , @yahoo , @hotmail.etc.
15. **E-mail Control** & Advice :
 - Receive e-mail with IPs device boot up.
 - POP3 Control–Control each outlet ON/OFF through E-mail.
16. Protection of “ FUSE ” & “ **Inrush Current - Power Surge** ” - fit for Light control application
17. **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)

- 18. QR Code detection for easy & fast apply on
- 19. Arrange own language display in webpage

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 .*

- 20. Specific software developed by Aviosys and provided free of charge :
 - SDK Available : HTTP Command (Compatible with 9820)
 - 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- No Need to do Port Forwarding . , simply Plug & Play .

2.2 Specification

● INLET

Input plug	IEC60320 C20 . 50 - 60Hz
Voltage	100-240VAC Auto sensing
Protection	Fuse 250VAC 15 Amp (9820MT-S) (IEC320 C13) Fuse 100VAC 20 Amp (9820MT-T) (NEMA 5-15)

● OUTLET

Output plug	<ul style="list-style-type: none"> ● 9820MT-S : IEC 320 C13 * 8p or ● 9820MT-T : NEMA 5-15 * 8p
Maximum current per outlet	15 Amp / 100VAC (IEC 320) or 10 Amp / 240VAC (NEMA)
Maximum current of total loading	20 Amp / 100V or 15 Amp / 240V

● PHYSICAL & ENVIRONMENT

Dimension (WxDxH)	450 x 170 x 45 mm
Unit Weight	1.60 kg
Operating Temperature	- 20°C ~ 70°C or -4°F~ 158 °F
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

9820 , IR remote power controller , EARs (with screws) , DI connector and Cable Tie .

2.5 Interface

Front View




From Left side to right side

<p>Network & USB :</p>	<p>Network Connection :</p> <p>For 10/100 Mbps network . There are 2 network RJ45 connect : NET1 - Green - for network connection NET2 – Gray - for by pass as hub function only</p> <p>Please connect NET1 to the Router/ Hub / IP Switch.</p> <p>2 USB Connection :</p> <p>A.. USB 1 for : - USB 887X : 8871 & 8870 - USB to RS232 serial port - 4G / NBIOT Dongle - HUAWEI E8372</p> <p>B. USB 2 for Power Bank Input</p>
<p>LINK</p>	<p>For network connection .</p>
<p>Number 1 to 8 - Outlet status</p>	<p>To indicator the power ON /OFF status of each outlet Light in Green : power ON Light in RED : power OFF</p>
<p>Reset :</p>	<p>To reset to original manufacture settings, hold down the</p>

	reset button with a sharpen pin for 10 seconds then release. There are THREE beeps response (short – mid long – short) which means reset successfully and 9820MT will be rebooted itself (one beep after reboot) and most information go back to default setting .
Temp :	This is the Temperature Sensor (RED , on board) to detect the temperature around of 9820 . The detect range is -20 ~ 70 °C / - 4 ~ 158°F .
IR :	This area is for receiving the signal from handheld IR remote controller
DI :	Dry Contact
Power Light :	Device power .
DC 12V Out	Supply DC 12V 1A power.
LCD Display :	Show the IP address , Temperature, Voltage and current of each port .

Rear View

 <p style="text-align: center;"> IP Power 9820MT-S IP Power 9820MT-T </p>	
From Left side to Right side	
Power Inlet :	100~240 VAC & 50~60HZ , IEC320 C20.
Power Switch:	The Power switch turns on the input power.
Breaker Reset :	This is Fuse protection to prevent electrical surges from damaging the unit. The 9820MT comes with one spare fuse in the unit.
8 Outputs:	9820MT-S : IEC 320 C13 .

	<p>The Maximum current of each outlet is 10A / 240VAC .</p> <p>9820MT-T : NEMA 5-15 .</p> <p>The Maximum current of each outlet is 15A / 100VAC</p>
--	---

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 9820MT

The default setting for 9820 MT to get IP is DHCP mode - get IP from Router. If user do not use router and connect the 9820 MT to your PC directly or connect to HUB which have no DHCP function , the connection sequence of network cable and power cord are different . Please refer following procedure :

A. 9820 MT ----- Router ----- PC (with Web browser)

- 1.) Connect the Ethernet cable (RJ45) to the 9820 MT to your local area network.
- 2.) Then connect the power cable into the power input port of the 9820 MT.
- 3.) Connect the device that you would like to control to the output plug on the top of the 9820 MT.
- 4.) Switching the power source to ON status , this switch is located at the rear of 9820 MT.
- 5.) After power on for around 45 seconds , there is a short beep sound for 9820 MT which means the system reboot successfully

B. 9820 MT ----- PC (with Web browser) or HUB

If you select to connect to PC directly , please connect the RJ45 cable to 9820 MT after 1 minutes as power on of the 9820 MT device . power hear the beep sound of 9820 MT DO NOT connect the RJ45 as power ON

- 1.) Connect the power cable to 9820 MT and press the power switch to ON
- 2.) After 9820 MT power on for around 60 seconds , there is a short beep sound for 9820 MT which means the system reboot successfully
- 3.) Then Connect the Ethernet cable (RJ45) to the 9820 MT to your PC.
- 6.) Execute the software IPEDIT.exe to get the IP as 192.168.1.169
- 7.) Please make sure the IP address of you PC is also 192.168.1.X / XX/XXX or you may not log in the 9820 MT webage in 192.168.1.169

3.3 Software Installation

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

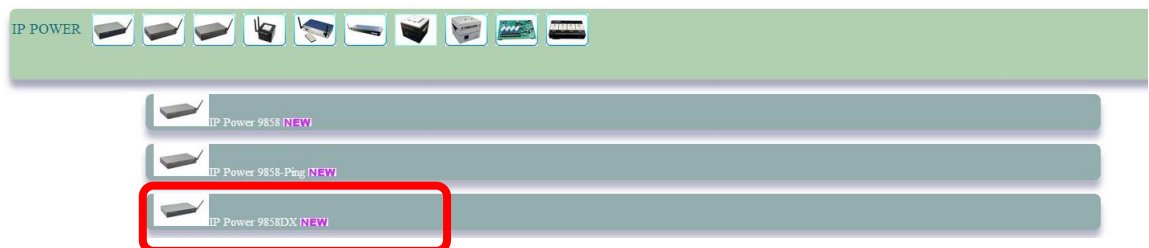
IP Power Software:

IP Edit (Required)

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

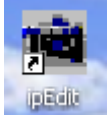


- 1.) Select the IP Power 9820 MT



2.) All the available downloads for the 9820 MT will be shown

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



Then you can select to connect 9820 MT.

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 9820 MT from a local networked computer.

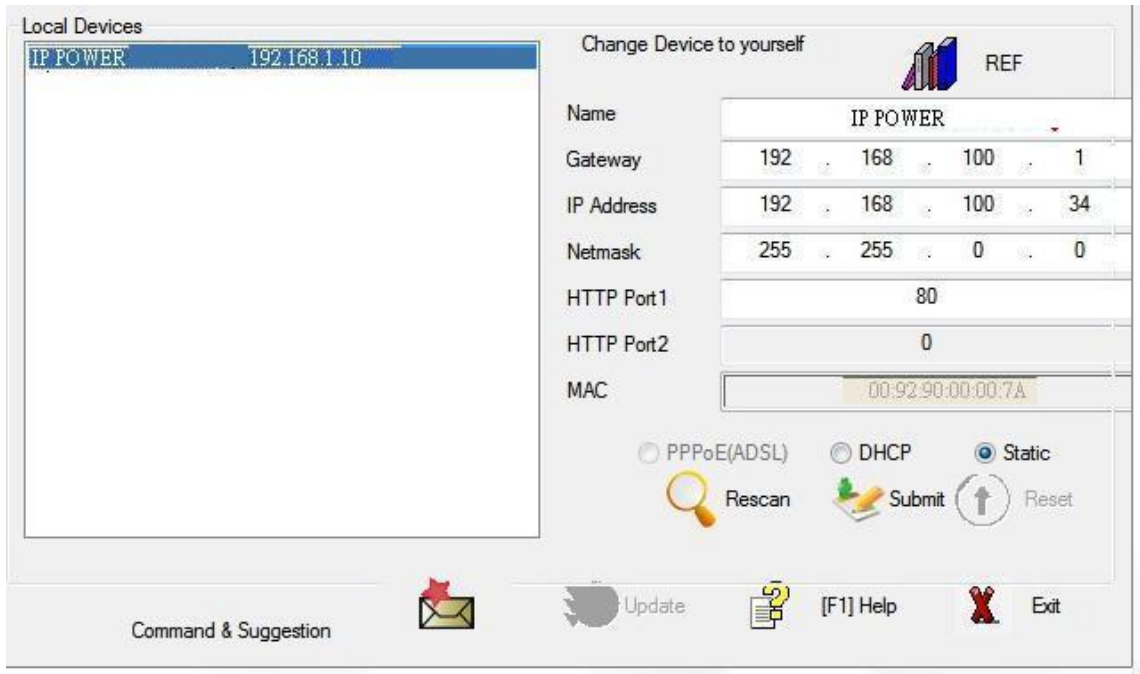
IP Power 9820 MT Default Login / Password

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 9820 MT 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 9820 MT , please check the fuse part . There will be no power for 9820 MT 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 9820 MT to boot up .
 5. **Connection** : Please make sure that the 9820 MT 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 9820 MT device and the device information will pop up on the right.

- 3.) Check to see that the gateway IP and the IP Address (9820 MT) 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 9820 MT 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 9820 MT in IPEDIT :

9820 MT 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 9820 MT is : 192.168.100.34

User will need to make sure that the first 3 segments of user 9820 MT 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 9820 MT should be: 192.168.1.X

New Network Information

9820 MT 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

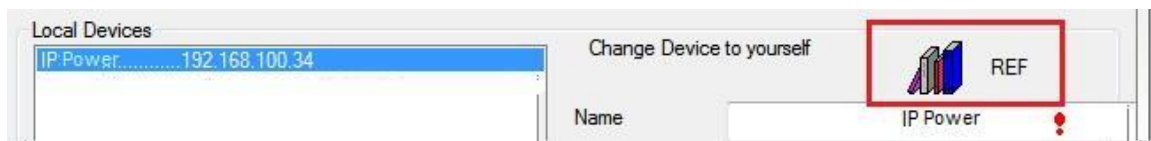
- 4.) Press the " Rescan " button to see if changes have been made.
- 5.) Double click on the device in the local device section and an IE web browser with the device login will pop up.
- 6.) Type in the default Login and IP Address to enter the device.

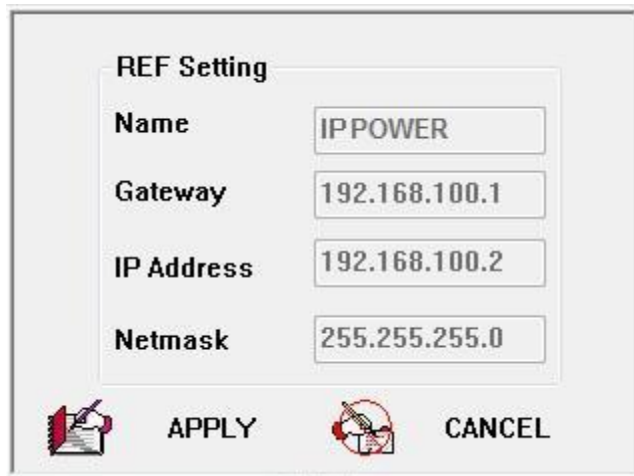
Default Login : admin

Default : 12345678

Notice :

* User can click " REF " in IEPDIT to auto search proper IP setting for 9820 MT. It will take few minutes to show the suggest wizard.





REF Setting

Name: IPPOWER

Gateway: 192.168.100.1

IP Address: 192.168.100.2

Netmask: 255.255.255.0

APPLY CANCEL

Please click " APPLY " as seeing the suggest wizard , click " yes " to ignore the remind message of IP being used and then type the Username and Password to change the IP setting.

Username : admin
 Password : 12345678

Notice :

Segment : The first 9 digits of the IP Address .

EX: The IP of user PC is 192.168.100.122. If the " Local IP Address " is 192.168.100. x (X can the value of 1~252) , user PC can get into the webpage of 9820 MT .

3.3.2 Internet Setup

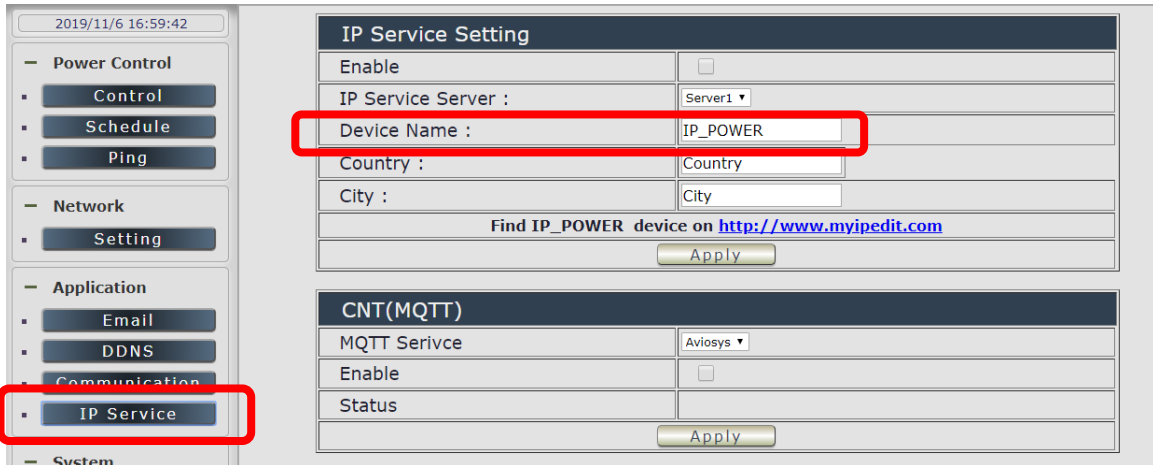
To connect the IP Power 9820 MT on Internet, there are two ways

- 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

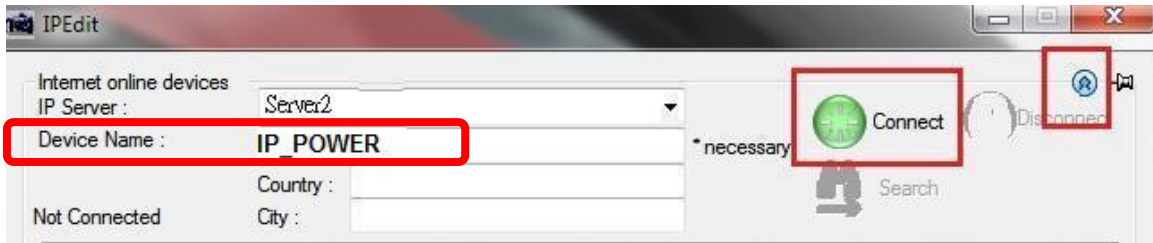
3.3.3 Using IP Service

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 9820 MT on Internet , user still need to do the "Port Forwarding " in own router.**

Before using "IP Service " , please change the device name of user 9820 MT to avoid similar name in Host Server.

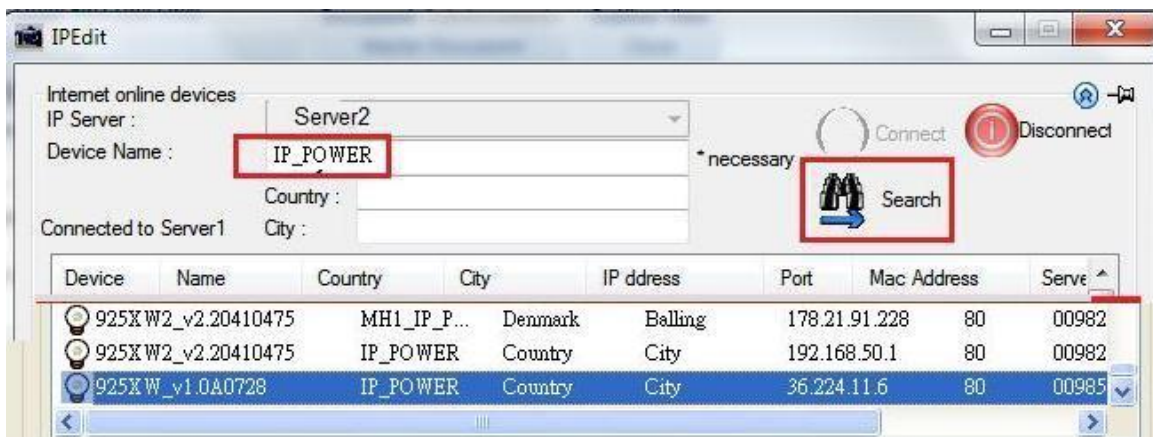


- 1.) Open IP Edit and select the server that user's 9820 MT is designated to.
- 2.) Hit the Green Connect button on the top of IP Edit.



- 3.) Then type in the 9820 MT 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 9820 MT 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 9820 MT has been setup correctly, log into the device.

The default Username and Password for the 9820 MT

Username : admin

Password: 12345678

The Control Console

The Right side Menu of the Web Interface control the functionality and setup of the IP Power 9820 MT.



The IP Power 9820 MT Console consists of six main sections which will be explained in details below.

1. **Top Column** : Device name & Column Display (for smart phone).
2. **Information** : Time , Temperature , Voltage , DI status , USB information , Outlet name & Current Amp value .
3. **IO Control** : Control , Schedule & Ping.
4. **Network** : Setting
5. **Application** : Email , DDNS, Communication & IP Service
6. **System** : Management, Information, SysLog & Firmware
7. **Logout**
8. **Firmware version**

4.1 Top Column

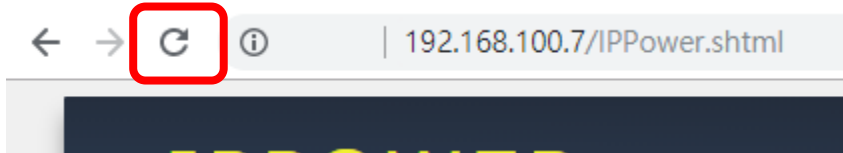
4.1.1 Device name

This section show the device name . You can change the device name here : Application → IP Service → Device name Change name “ IP POWER 9820 MT “ as “Enjoy 9820 MT “

The screenshot shows the IPPOWER web interface. The main content area is titled 'IP Service Setting' and contains a form with the following fields: 'Enable' (checkbox), 'IP Service Server' (dropdown menu showing 'Server1'), 'Device Name' (text input field containing 'IPPOWER'), 'Country' (text input field), and 'City' (text input field). Below the form is a link: 'Find IPPOWER device on <http://www.myipedit.com>' and an 'Apply' button. The left sidebar has a menu with 'IP Service' highlighted. The top right corner shows 'AVIOSYS'.

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 .



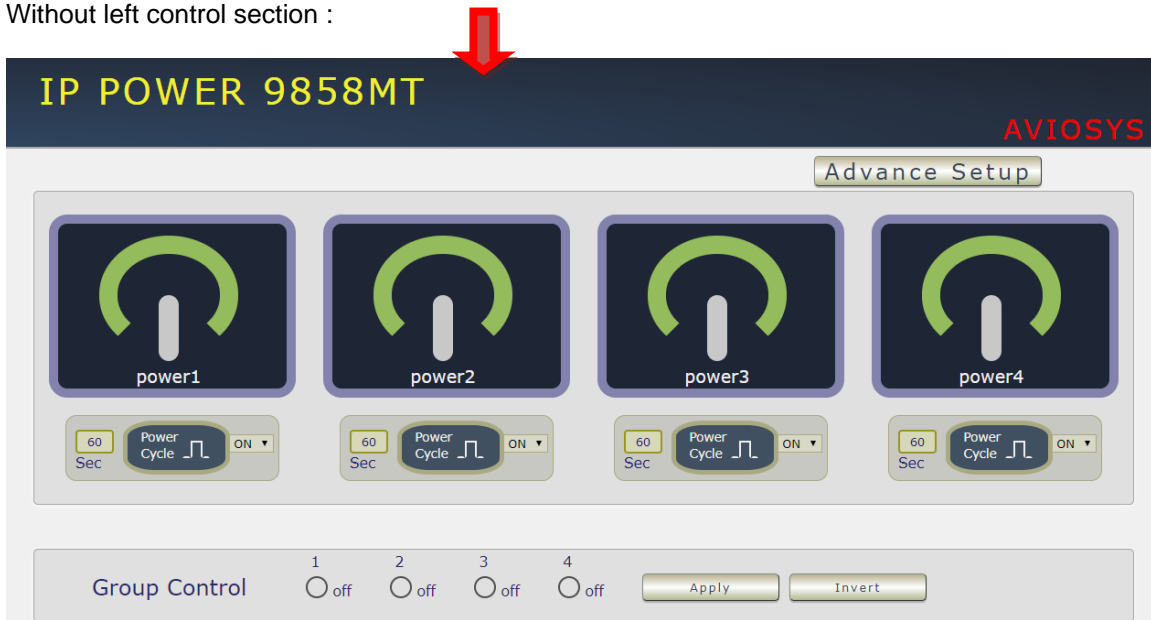
4.1.2 Column Display :

For Smartphone user to control 9820 MT 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 :

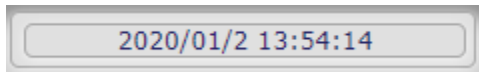


Without left control section :



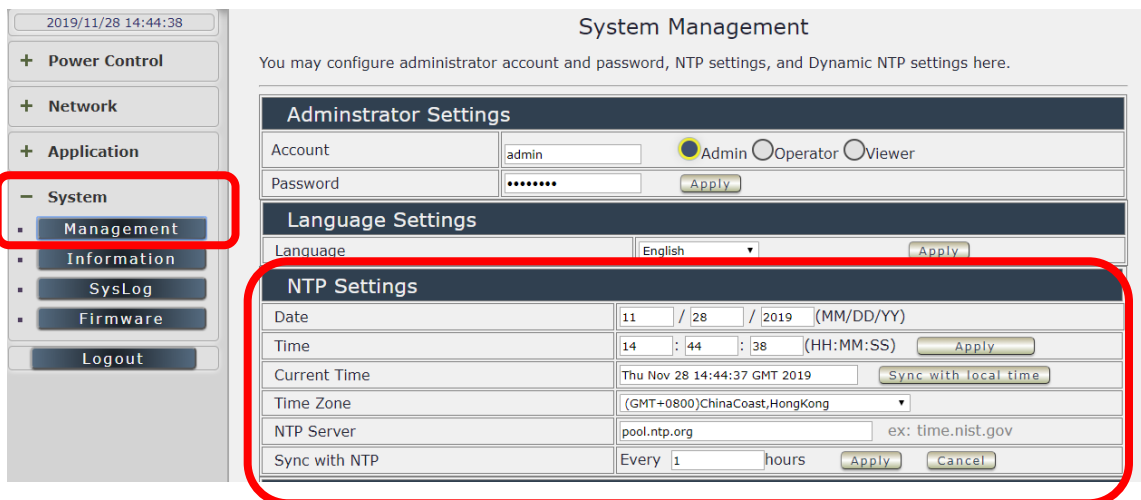
4.1.3 Time :

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 solution :

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



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 9820 MT .
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 “ date “ to confirm the device time.

```
IP_POWER login: admin
Password:

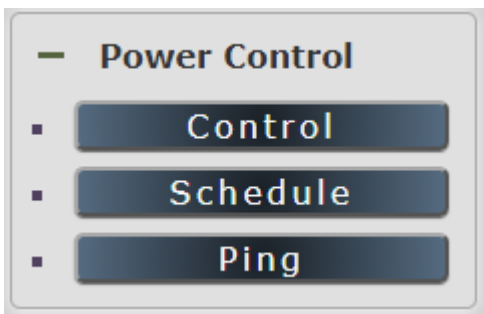
BusyBox v1.12.1 (2019-07-08 01:01:56 PDT) built-in shell (ash)
Enter 'ioctrl -h' for a list of built-in commands.

# 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 9820 MT 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 :



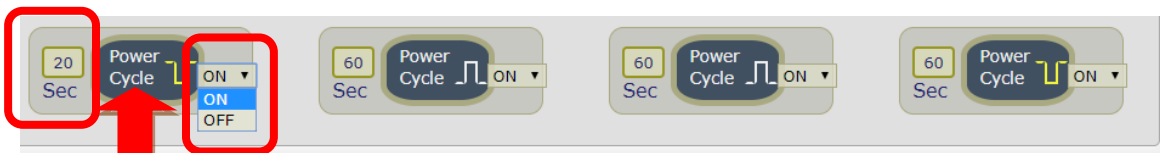
User can do the following 3 basic operation in this page :

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

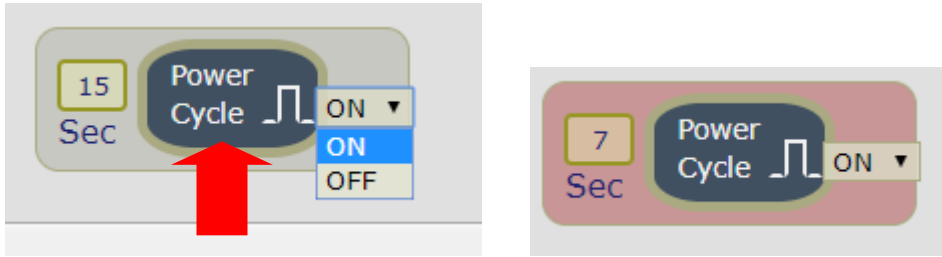


- 2 Power Cycle : Manually Control the relay delay some times to turn ON or OFF .
The relay cycle time can be set from 1 to 9999 seconds



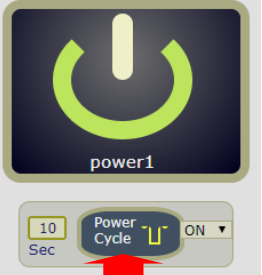
- As ON, Select OFF and press “Power cycle ” then the outlet status is ON → OFF.
- As ON, Select ON and press “Power cycle ” then the outlet status is ON → OFF → ON.
- As OFF, Select ON and press “Power cycle ” then the outlet status is OFF → ON.
- As OFF, Select OFF and press “Power cycle ” then the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

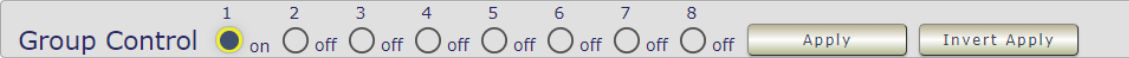
	<p>Original Outlet as " ON " , select final status as " OFF " & fill 3 sec . After press " power cycle " button, the outlet will be ON for 3 seconds and then turn OFF .</p> <p style="text-align: center;">ON (3 sec) → OFF</p>
	<p>Original Outlet as " OFF " , select final status as " OFF " & fill 15 sec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



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

ON -- > OFF (10 sec) → ON

3 Group Setting : User can control more than one outlet by press the right side “Apply “ button . For safety concern , each port of 9820 MT will turn ON or OFF one after one .



- Apply : Setup the ON/OFF by the buttons status .
- Invert Apply : 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

Power Control

Port Name Setting								
Outlet1	Outlet2	Outlet3	Outlet4	Outlet5	Outlet6	Outlet7	Outlet8	
power1	power2	power3	power4	power5	power6	power7	power8	

Notification Setting									
Name	power1	power2	power3	power4	power5	power6	power7	power8	
Forbidden off manually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Current (1~10)Amp	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="8"/>
Temperature Limit:(-20~70) <input type="text" value=""/>	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾
Low:0 High:60 Beeper <input type="checkbox"/>									
Voltage Limit:(90~260V)	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾	None ▾
Low:80 High:260 Beeper <input type="checkbox"/>									
Default Power Status	LAST ▾	LAST ▾	LAST ▾	LAST ▾	LAST ▾	LAST ▾	LAST ▾	LAST ▾	LAST ▾

Apply

Power Cycle Time Setting								
Name	power1	power2	power3	power4	power5	power6	power7	power8
Power Cycle Time	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds

Apply

Shutdown On Lan Settings								
Name	power1	power2	power3	power4	power5	power6	power7	power8
Delay Time	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds	60 Seconds

Digit Input Setting			
Power outlet	E-mail Alerts	Beep Alert	Action
Power1 ▾	<input type="checkbox"/>	<input type="checkbox"/>	None ▾
Apply			

Lcd display set					
T/V/IP *	IP ○	11~4 ○	15~8 ○	backlight ON ○	backlight OFF ○
Apply					

USB Device							
USB Alarm	Enable	Humi Low	Humi High	Temp Low	Temp High	Ampere Low	Ampere High
	None ▾	10 %	99 %	-20 °C	79.9 °C	0 Amp	10.2 Amp
Apply							

Wake On Lan Settings		
Control Outlet	MAC	
power1	000000000000	Send
power2	000000000000	Send
power3	000000000000	Send
power4	000000000000	Send
power5	000000000000	Send
power6	000000000000	Send
power7	000000000000	Send
power8	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 “

Power Control

Port Name Setting							
Outlet1	Outlet2	Outlet3	Outlet4	Outlet5	Outlet6	Outlet7	Outlet8
power1	power2	power3	power4	power5	power6	power7	power8

Please enter Power1 name:

Port Name S			
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	power5
Forbidden off manually	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>
Email Alerts	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>
Current (1~10)Amp	<input type="checkbox"/> 8	<input type="checkbox"/> 8	<input type="checkbox"/> 8	<input type="checkbox"/> 8	<input type="checkbox"/>
Temperature Limit:(-20~70) <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>
Low: <input type="text"/> High: <input type="text"/> Beeper <input type="checkbox"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>
Voltage Limit:(90~260V)	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>
Low: <input type="text"/> High: <input type="text"/> Beeper <input type="checkbox"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>	None <input type="text"/>
Default Power Status	LAST <input type="text"/>	LAST <input type="text"/>	LAST <input type="text"/>	LAST <input type="text"/>	LAST <input type="text"/>
<input type="button" value="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	power5
Forbidden off manually	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 9820 MT to notify user by following situation :

- Receive E-mail with IP information & MAC Address as 9820 MT 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"/>

- **Current Alarm Setting:** to enable the protection as over current and setup the maximum value. The range of each outlet is 1~ 10 amp . As over the setting value, 9820 will keep beeping for several times and then turn OFF the power output automatically.

Over Current Protection (Max. Current limit)

There has “ over current protection” in 9820MT. As the Amp value of power number is over the setting or over the maximum value 10 Amp, 9820MT will automatically turn off that power A in few seconds . There is an alarm with beep sound and via e-mail advice as over current. The alarm can be enable or disable for each power in Alarm setting of Power Control in IO Control section.

As the detected Amp value is over the current limit setting, 9820MT will keep short 2 beep for several times to remind the over loading issue happened and then turn off that output after a long beeping .

- **Temperature Alarm Setting:** to enable the protection as over temperature and setup the maximum value of temperature. The range is at -20 ~ 70 °C / -4 ~ 158 ° F . As over the setting value, 9820 will keep beeping for several times and then do the setting ON/OFF/None by user.
- **Voltage Alarm Setting:** to set up the maximum value of current limit. The range is at 90~ 260 V AC . As over the setting value, 9820 will keep beeping for several times and then do the setting ON/OFF/None by user.

For safety concern , each port of 9820 will turn ON or OFF one after one

- **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 .

Default Power Status	LAST ▼	LAST ▼	LAST ▼	LAST ▼
Apply				

- Power cycle time setting :

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 :

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

9820 MT 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 9820 MT 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

- Digit Input (DI) Setting :

- Enable /disable the email / beep alarm as DI status change
- Setup Auto Control on one outlet to be ON/OFF /NONE as DI (Dry Contact) status change . Do the Action at one time only

Digit Input Setting			
Power outlet	E-mail Alerts	Beep Alert	Action
Power1 ▼	<input type="checkbox"/>	<input type="checkbox"/>	None ▼
Apply			

For example :

Outlet #1 is OFF . Setup the power outlet “ power #1 “ to action “ON” as DI status change



Outlet status : OFF → ON → ON → ON

- LCD Display :

Lcd display set						
T/V/IP <input type="checkbox"/>	IP <input type="checkbox"/>	I1~4 <input type="checkbox"/>	I5~8 <input type="checkbox"/>	backlight ON <input type="checkbox"/>	backlight OFF <input type="checkbox"/>	Loop <input type="checkbox"/>
<input type="button" value="Apply"/>						

User can select the display contents in LCD panel :

- Show either fix contents - " T/V/IP = Temperature / Volt / IP " or " IP " " Current of outlet #1~ #4" or " Current of outlet #5~ #8
- Or Loop - " Temperature Volt / IP " , " IP " , " Current of outlet #1~ #4" , " Current of outlet #5~ #8 " display in turns.
- Adjust the back light **on** / off the LCD panel .

- 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"/>
<input type="button" value="Apply"/>		

<input type="button" value="Schedule List"/>				
<input type="button" value="1"/>	Duration Mode	<input type="radio"/> Once	<input type="radio"/> Every Week	<input checked="" type="radio"/> Every Day
Date: From <input type="text" value="2018/01/22"/> to <input type="text" value="2018/02/20"/>				
Time <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> (Hr:Min:Sec)				
Schedule power action <input checked="" type="checkbox"/>				
Jason <input checked="" type="checkbox"/>	tony <input checked="" type="checkbox"/>	power3 <input checked="" type="checkbox"/>	power4 <input checked="" type="checkbox"/>	
<input type="text" value="SOL"/> <input type="text" value="Relay-ON"/> <input type="text" value="Relay-OFF"/> <input type="text" value="Relay-CYCLE"/> <input type="text" value="WOL"/> <input checked="" type="text" value="SOL"/>	<input type="text" value="SOL"/>	<input type="text" value="Relay-OFF"/>	<input type="text" value="Relay-OFF"/>	
<input type="button" value="Apply No.1 Sch"/>		<input type="button" value="Delete"/>		

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	Rule No1
www.baidu.com Check	03	Stop ▼	
www.sony.com Check	03		

Ping failure action

Jason <input checked="" type="checkbox"/>	tony <input checked="" type="checkbox"/>	power3 <input checked="" type="checkbox"/>	power4 <input checked="" type="checkbox"/>
Relay-OFF ▼ Relay-ON Relay-OFF Relay-CYCLE WOL SOL	Relay-OFF ▼	Relay-OFF ▼	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	Schedule Action at 00:00:00	<div style="display: flex; justify-content: space-around;"> <div style="width: 20px; height: 20px; border-radius: 50%; background-color: #d9ead3;"></div> <div style="width: 20px; height: 20px; border-radius: 50%; background-color: #d9ead3;"></div> <div style="width: 20px; height: 20px; border-radius: 50%; background-color: #d9ead3;"></div> <div style="width: 20px; height: 20px; border-radius: 50%; background-color: #d9ead3;"></div> </div>
------	---------------	--------------------------------	--

Schedule List

1
Duration Mode
 Once
 Every Week
 Every Day

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

- Adding a Scheduled Event

1. Select the Action Duration :

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

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

The screenshot shows a scheduling interface. At the top, there is a 'Duration Mode' section with three radio buttons: 'Once', 'Every Week' (which is selected), and 'Every Day'. Below this is a 'Weekly select:' section with checkboxes for each day of the week: Sunday, Monday, Tuesday (checked), Wednesday, Thursday (checked), Friday, and Saturday. Underneath is a 'Date: From' field with a yellow highlight and a 'to' field. Below that is a 'Time' field set to '00'. The main part of the interface is a calendar for 2018, showing January, February, and March. The date 19th of January is highlighted in yellow, and the 26th is highlighted in red. The calendar grid shows days of the week (Su, Mo, Tu, We, Th, Fr, Sa) and dates.

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. .

The screenshot shows a dialog box titled 'Schedule power action' with a checkmark icon. Inside the dialog, the name 'Jason' is displayed with a checkmark icon. Below the name is a dropdown menu with the following options: 'Relay-OFF' (selected), 'Relay-ON', 'Relay-OFF', 'Relay-CYCLE', 'WOL', and 'SOL'.

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 .

Schedule Setting

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

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

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

Apply No.1 Sch
Delete

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

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

No.1Ping every 5sec	www.baidu.com www.sony.com	0.9sec Timeout Ping 3 times 0.9sec Timeout Ping 3 times	Either Fail	1 2 3 4	after 5sec	Repeat 1Times
No.2Ping every 5sec	www.baidu.com www.sony.com	0.9sec Timeout Ping 13 times 0.9sec Timeout Ping 0 times	Both Fail	1 2 3 4	after 5sec	Repeat 1Times
No.3Ping every 5sec	www.baidu.com www.sony.com	0.9sec Timeout Ping 0 times 0.9sec Timeout Ping 0 times	Either Fail	1 2 3 4	after 5sec	Repeat 1Times
No.4Ping every 5sec	www.baidu.com www.sony.com	0.9sec Timeout Ping 0 times 0.9sec Timeout Ping 0 times	Both Fail	1 2 3 4	after 5sec	Repeat 1Times

- Ping Setting Page :

The screenshot shows the 'Global Ping Base Setting' section with the following values:

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

The 'Conditional Mode' section is set to 'And'.

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

Buttons: 'Apply', 'Apply Rule', 'Delete', 'Ping List' (highlighted with a red arrow).

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.

The screenshot shows the 'Global Ping Base Setting' section with the following values:

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

The 'Conditional Mode' section is set to 'OR'.

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

Buttons: 'Apply', 'Apply Rule', 'Delete', 'Rule No1' (highlighted with a red arrow).

2. Ping Base Setting :

The screenshot shows the 'Global Ping Base Setting' section with the following values:

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

Buttons: 'Apply', 'Ping List'.

- 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 .

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

- 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 : 9820 MT will Ping one IP address. As the IP fail times reach to the setting times . Action (ON/OFF/RESET) will be activated .

OR : 9820 MT will Ping 2 IP address. Either one IP fail times reach to the setting times. Action (ON/OFF/RESET) will be activated .

AND : 9820 MT 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

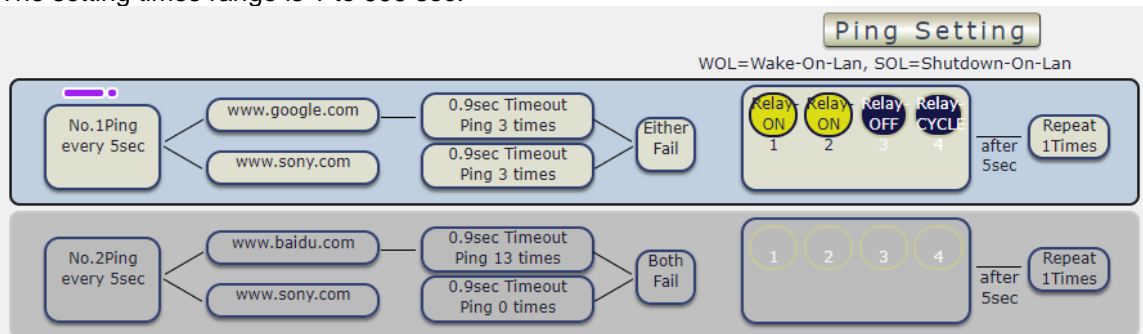
- Failed times then action : Setup the ping failure times for 9820 MT to execute the setup ON/OFF / Reset action of setting .
- Repeat : After the ON/OFF/Reset action , user can setup the Ping action to keep ping (Continue) or to Stop Ping (Stop) .
- Enable Ping function : In the selected Rules number , 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.

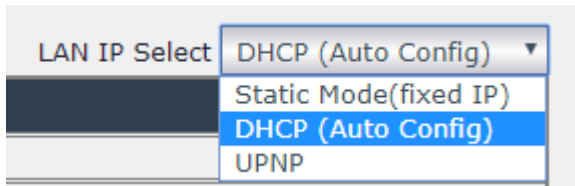
EX: Result of setting

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



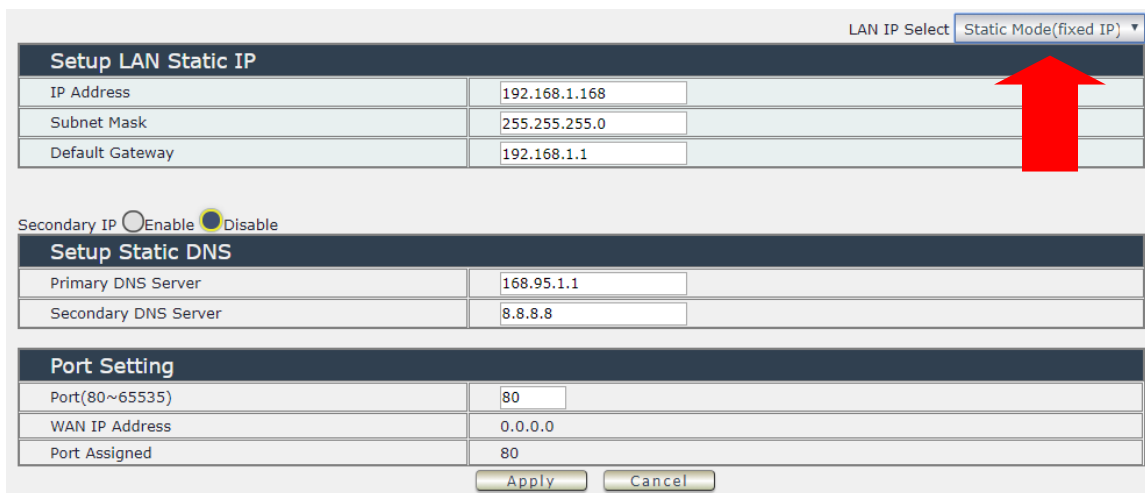
A screenshot of a web interface showing a dropdown menu for 'LAN IP Select'. The menu is open, displaying four options: 'DHCP (Auto Config)' (selected), 'Static Mode(fixed IP)', 'DHCP (Auto Config)', and 'UPNP'.

A. STATIC (fixed IP) :

Setup IP address , DNS and Port manually. This allows the 9820 MT 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 page. The 'LAN IP Select' dropdown is set to 'Static Mode(fixed IP)'. The page contains three main sections: 'Setup LAN Static IP', 'Setup Static DNS', and 'Port Setting'. A red arrow points to the 'LAN IP Select' 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 9820 MT 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 . 9820 MT will remember last IP of 9820 MT 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



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 9820 MT under multiple routers.

LAN IP Select **UPNP**

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

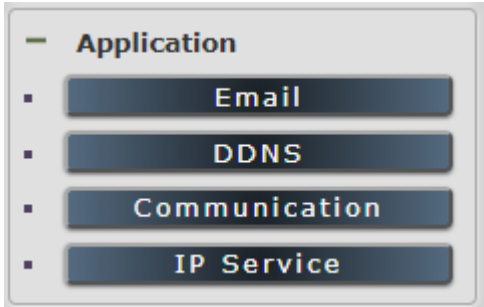
UPNP	
Enable	<input type="checkbox"/>
Port	44615 (81~65535)



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 :

E-mail Setting	
SMTP Server :	Gmail <input type="text" value="smtp.gmail.com"/>
Port :	587 <input checked="" type="checkbox"/> StartTLS
User :	<input type="text" value="jasonliao70"/>
Password :	<input type="password" value="*****"/>
From :	<input type="text" value="aviosys1@gmail.com"/>
To :	<input type="text" value="aviosys101@gmail.com"/>
To1:	<input type="text" value="aviosys102@gmail.com"/>
To2:	<input type="text" value="aviosys103@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 9820 MT 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 9820 MT 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 , 9820 MT 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: 9820 MT@gmail.com
- **Password:** Password for the e-mail address. EX : 12345678
- **From :** Mail sender address to send the E-Mail out . Ex.: 9820 MT@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 :

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 ▾

Step 1 : After setup the email setting in 9820 , please press “ Apply “ button to check if show message “ Success “

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

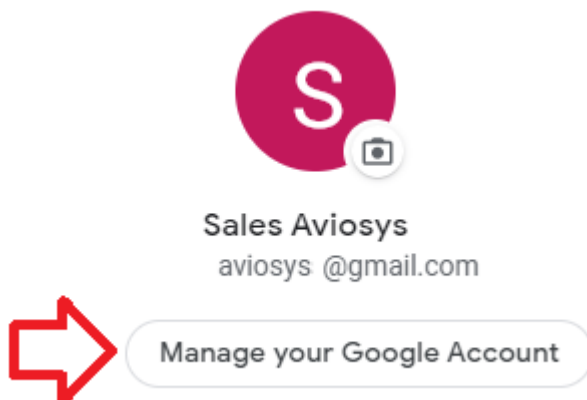


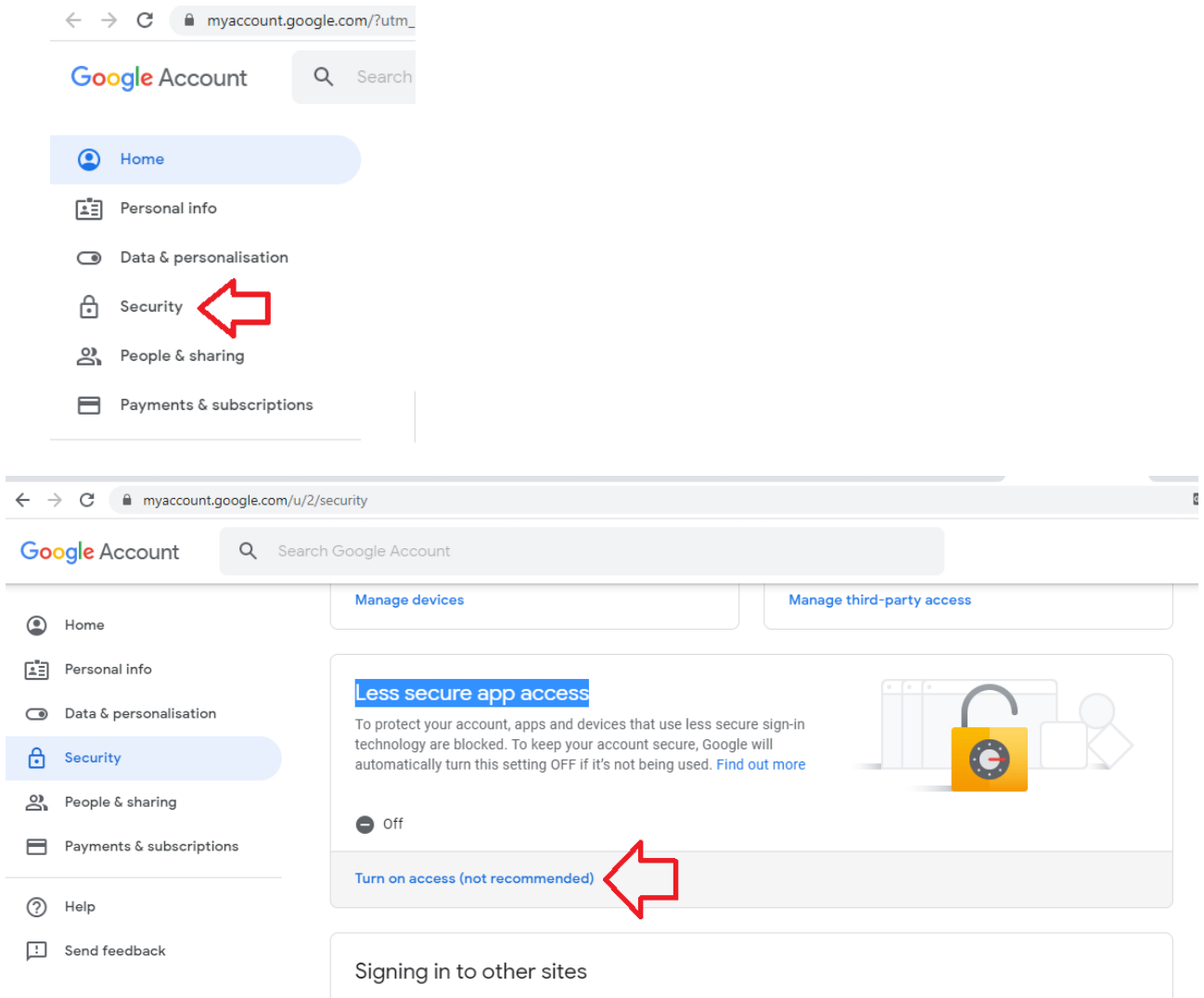
Step 3 : If message show "Fail " , please turn ON the setting in your gmail account - Turn ON the function Less secure app access "

- Procedure : Go to your google account → Security → Turn ON the function " Less Secure appaccess "

Please refer the following 3 pictures

Go to the management part of gmail account & go to Security section **Turn ON the function " Less Secure app access "**





Notice : You will not see the section “ Less secure app access “ if your gmail account turn ON the function “ 2-Step Verification “ . Please turn it off as following picture or use another gmail account .

● 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 <input type="text" value="pop.gmail.com"/>
From :	aviosys@gmail.com
Port :	110
User :	aviosys1
Password :	••••••
Tag :	Test
Interval(Minute) :	2
Mail Number :	100
CTRL Format :	<input checked="" type="radio"/> Subject <input type="radio"/> Body

Example:

E-Mail Test:

Subject:

Body:

Settings Section :

To set up 9820 MT 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 , 9820 MT 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 9820 MT to recognize this mail as 9820 MT 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 9820 MT to search as command mail in the number of your email receiver latest . EX. : setup 20 that 9820 MT will check the latest 20pcs email in receivers mail box for the 9820 MT 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 :

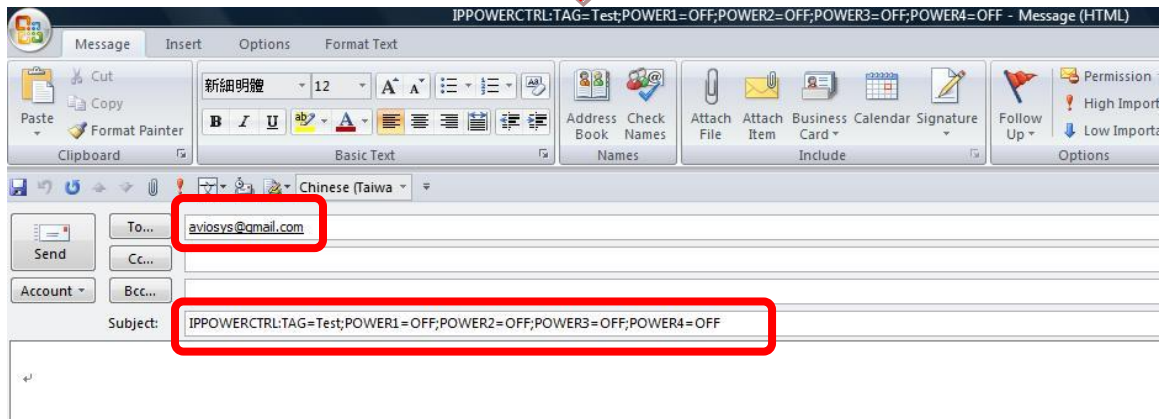
CTRL Format : Subject Body

Apply

Example:
E-Mail Test:

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

Submit



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

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

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

4.4.2 DDNS

The DDNS section allows user to setup the 9820 MT with a DDNS server (i.e. www.dyndns.com). After the server has been setup correctly, enter the necessary information into the 9820 MT DDNS settings.

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

DDNS Setting	
Service Provider :	None
Account :	None
Password :	Dyndns.org
Domain Name :	freedns.afraid.org
	www.zoneedit.com
	www.no-ip.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

9820 MT supports SNMP, Telnet , Modbus TCP and BACnet TCP

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	IPPOWER-MIB.txt

Apply

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

Apply

TCP Modbus	
Modbus Enable	<input type="checkbox"/>
Port	502

Apply

BACnet -Beta	
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 :	N/A
Host(192.168.1.1:162) :	192.168.1.1:162
Trap Community :	private
MIB file	IPPOWER-MIB.txt
<input type="button" value="Apply"/>	

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

SNMP:	
Enable	<input type="checkbox"/>
Community Authority :	N/A
Community Name :	private
Trap type :	N/A
Host(192.168.1.1:162) :	N/A
Trap Community :	v1 trap
MIB file	IPPOWER-MIB.txt
<input type="button" value="Apply"/>	

In MIB file section , user can get MIB information.

B.Telnet

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

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

#
# ioctl -h
**-----**
Usage: ioctl
[-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
-----
# ioctl -s p6=1111
p61 ok,p62 ok,p63 ok,p64 ok,
# ioctl -c
Current value: 0.000000, 0.000000, 0.000000, 0.000000
# ioctl -t
Temperature value: 32.299999
# ioctl -v
IO CONTROL Version: 1.0
Compilation Date....: May 14 2013
Compilation Time....: 10:44:47
# ioctl -p
Power Status: 1, 1, 1, 1
#

```

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 its 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 http://www.myipedit.com	
<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 9820 MT 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 9820 MT on the internet without having to remember long IP Addresses. Instead user can just remember the name of user device.

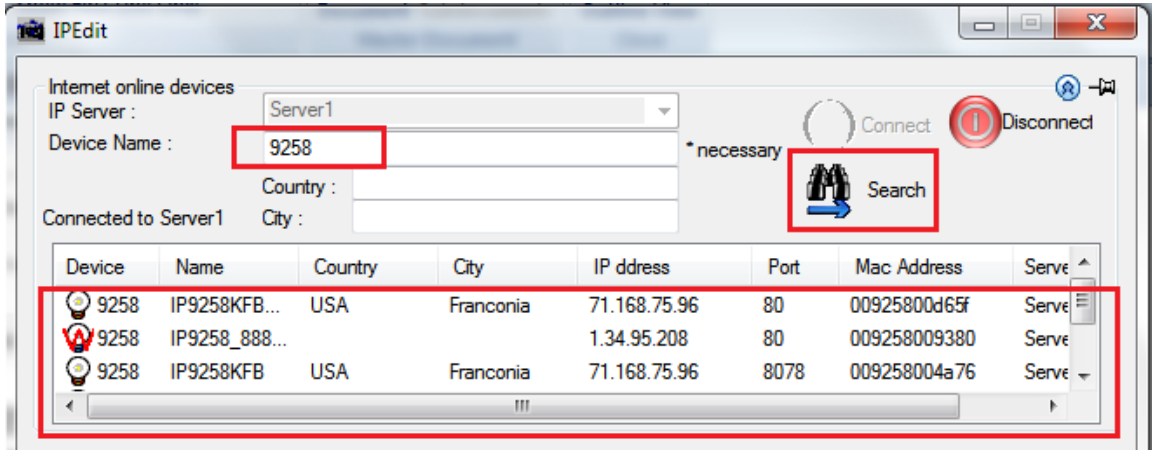
IP Service Setting	
Enable	<input type="checkbox"/>
IP Service Server :	Server1 ▾
Device Name :	Server1 Custom
Country :	Country
City :	City
Find IP_POWER device on http://www.myipedit.com	
<input type="button" value="Apply"/>	

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

User can search the 9820 MT 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

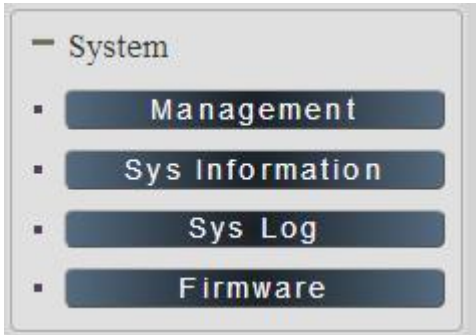


B. CNT (MQTT) –

For developing only. 9820 MT supports MQTT fucniton. 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.	
Adminstrator 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. 9820 MT 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 9820 MT .

3.Viewer: The viewer can only see the “ IO Control “ section , but can not see other page of 9820 MT.

Default Setting of the Authorities :

Authority	Account name	Password
Admin	Admin	12345678
Operator	user	user
Viewer	guest	guest
Note	Please amend the password as number or English character from 1 to 8 characters. Do not use special symbol like “ ” ; : ~ ! @ # \$ % ^ & * ()	

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

Langrage Settings

There are 3 language option of 9820 MT .The default langrage is English.
The other two languages are “Traditional Chinese “ and “ Simple Chinese “ .

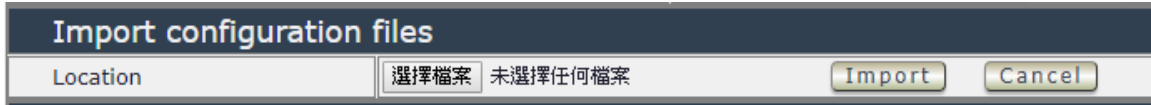
NTP setting

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

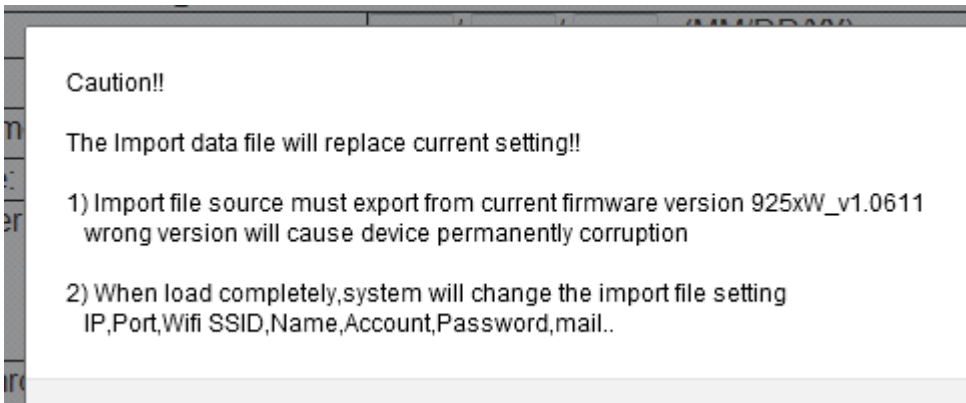
SYNC with NTP : User can setup the time gap (1~300 hours) for 9820 MT to check the time with the NET server .

Import configuration file

To setup multiple with same setting , user can import the settings of other 9820 MT from a " DAT " file which is exported form another 9820 MT . By import this file to other 9820 MT 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 9820 MT. 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 9820 MT without device nearby user side.

Note : The factory default setting of 9820 MT 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 9820 MT
- Factory Reset : set back to factory default .
- Reboot : 9820 MT device power reboot

4.5.2 System Information

User can get the system information here .

System Information			
System			
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)
WAN			
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
LAN			
Connected Type	DHCP		
Local IP Address	192.168.100.137		
Local Netmask	255.255.255.0		
Other Information			
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 9820 MT system operation information and send the information to assign Server IP address (not support name) . **The system information will be deleted after 9820 MT 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 9820 MT , 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 webpage control, there are several ways to control the outlets: by HTTPS/CGI command or by Telnet. 9820 MT 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 9820 MT 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 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 get Current : getcurrent

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

System return :

CGI Command : Data follows

c61=0.000000, c62=0.000000, c63=0.000000, c64=0.000000, c65=0.000000,

c66=0.000000, c67=0.000000, c68=0.000000, temp=22.700001

C61 to C68 means 8 currents › temp is temperature (as Celsius)

2.5 To get temperature (Celsius) : gettemp

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

System return :

CGI Command : Data follows

temperature=22.700001

2.6 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=0+p62=0+p63=0+p64=0+p65=1+p66=1+p67=1+p68=1>

System return :

CGI Command : Data follows

p61=0,p62=0,p63=0,p64=0,p65=1,p66=1,p67=1,p68=1

2.7 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+p64=5+p65=2+p66=4+p67=5+p68=2>

System return :

CGI Command : Data follows

p61 cycle ok,p62 cycle ok,p63 cycle ok,p64 cycle okp65 cycle okp66 cycle okp67 cycle okp68 cycle ok

2.8 To get voltage: getvoltage

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

System return :

CGI Command : Data follows

voltage=108.00

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

6.FAQ :

Q1: Why can't I see the 9820 MT's IP address in IPEDIT.exe ?

Ans.: Please check the PC you use is under same LAN/ network / segment as 9820 MT . 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 IP9820 MT.

Please refer the following possible parts for this 9820 MT not been searched by IPEDIT

- Boot up successfully : Please reboot the 9820 MT 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 IPEIT 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 9820 MT , 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 .
- Connection : Please make sure that the 9820 MT 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 .
- **If connect to PC directly or through HUB – there is no DHCP assigned IP to 9820MT , please remove the network cable and the power cord of 9820MT . Connect power cord to 980MT first , wait for 1 minutes to get the the beep of boot up , then connect the network cable to 980MT .Then the IP will go to 192.168.1.168 (Page #10)**

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 # 39 to **Turn ON the function “ Less Secure app access “ in Gmail setting .**

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 9820 MT will be rebooted itself -there is one beep after reboot) and most information go back to default setting (LAN IP).