MiniBoot

Reboot and Monitor Your Device Over IP

User Manual

Designed and manufactured by Austin Hughes

Legal Information

First English printing, August 2024

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40º Celsius (104º Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labelled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - ☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - ☐ Repair or attempted repair by anyone not authorized by us.
  - ☐ Any damage of the product due to shipment.
  - ☐ Removal or installation of the product.
  - ☐ Causes external to the product, such as electric power fluctuation or failure.
  - ☐ Use of supplies or parts not meeting our specifications.
  - ☐ Normal wear and tear.
  - ☐ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

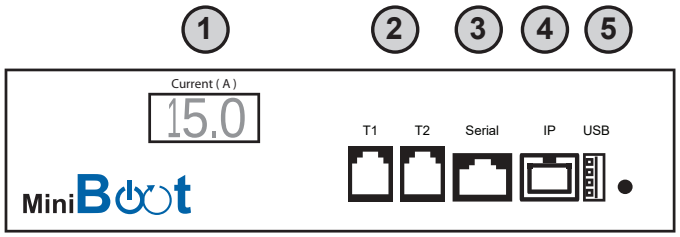
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

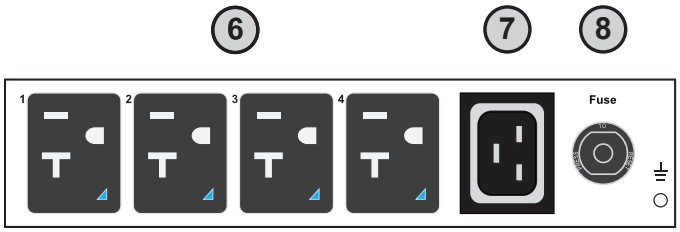
- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

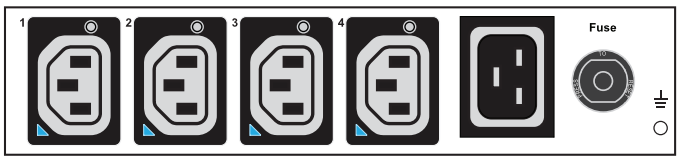
Contents

< 1.1 > Model List

MiniBoot







1. RMS current meter x 1
2. Sensor port x 2
3. Serial port x 1
4. 1000Base-T (Gigabit) IP port x 1
5. USB Wifi port x 1
6. Switched outlets
   (US NEMA, C13, UK, Schuko or French)
7. C20 Inlet x 1
8. Resettable fuse x 1

MiniBoot - Single Feed / Single			Amp		
Outlet	Inlet	Model	110V	208V	230V
NEMA x 2	C20 x 1	MiniBoot - 2US	15A		
NEMA x 4		MiniBoot - 4US			
NEMA x 8		MiniBoot - 8US			
C13 x 2	C20 x 1	MiniBoot - 2C13		16A	10A / 13A / 16A
C13 x 4		MiniBoot - 4C13			
C13 x 8		MiniBoot - 8C13			
UK x 4	C20 x 1	MiniBoot - 4UK			10A / 13A / 16A
Schuko x 4	C20 x 1	MiniBoot - 4SCH			10A / 16A
French x 4	C20 x 1	MiniBoot - 4FR			10A / 16A

< 1.2 > Hardware Specification

MiniBoot

Electrical	Nominal input voltage	110V / 208V / 230V
	Acceptable input voltage	±10% nominal
	Input frequency	50 / 60Hz
	Inlet	C20
	Outlet	US NEMA, C13, UK BS1363, Schuko or French
	Local meter	3-digit RMS current meter
	Overload protection	Resettable fuse
	Electrical endurance	1 x 10^5 operations

Physical	NEMA or C13	2 x outlet	4 x outlet	8 x outlet
	Product (W x D x H)	200 x 145 x 44.5 mm		345 x 145 x 44.5 mm
	Packing (W x D x H)	300 x 196 x 81 mm		525 x 230 x 80 mm
	Net weight	0.9 kg / 2.0 lb		1.6 kg / 3.5 lb
	Gross weight	1.2 kg / 2.7 lb		2.54 kg / 5.6 lb
	UK, SCH or FR	4 x outlet		
	Product (W x D x H)	220 x 150 x 55 mm		
	Packing (W x D x H)	300 x 196 x 81 mm		
	Net weight	1.23 kg / 2.7 lb		
	Gross weight	1.53 kg / 3.4 lb		
	Chassis color / materials	White / Steel		

Environmental	Operating temperature	-5 to 60°C degree (23 to 140°F)
	Storage temperature	-25 to 65°C degree (13 to 149°F)
	Operating humidity	0~95%, non-condensing
	Storage humidity	0~95%, non-condensing

< 1.2 > Hardware Specification

MiniBoot

Compliance (110V / 208V)	EMC	FCC Part 15 Subpart B ICES-003 Issue 7
	Safety	UL 62368-1 : 2014 and CSA C22.2 No. 62368-1 : 2014
	Environment	RoHS3, Reach & WEEE
	ISO	9001 / 14001

Compliance (230V)	EMC	CE / EMC
	Safety	CB, CE / LVD & UKCA EN 62368-1 : 2014 / A11 : 2017 BS EN 62368-1 : 2014 / A11 : 2017 IEC 62368-1 : 2014
	Environment	RoHS3, Reach & WEEE
	ISO	9001 / 14001

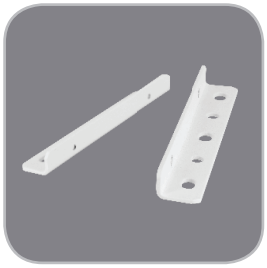
< 1.2 > Hardware Specification

MiniBoot Accessories

Free Mounting Kit

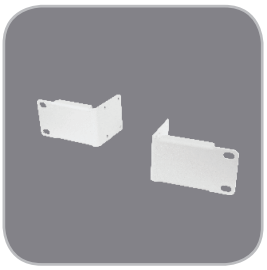
Universal Open Frame Kit

- Included with all MiniBoot models
- Enables easy installation into existing kiosks, walls, work panels and furniture



Rack Mounting Kit

- Included with IEC / US MiniBoot models
- 19” horizontal rack mount version



Sensors & Peripherals

WiFi Kit

- 802.11 g/n/ac WiFi
- Low-profile design wireless athena
- Magnetic base design for tool-less installation
- 1M cord with USB port

IPD-WIFI

Temperature & Humidity Sensor
Temperature Sensor

- Plug & play
- External sensor with 2M or 4M cord
- Low profile design with magnetic base for easily affix to the rack

IG-TH01-2M/4M

IG-T01-2M/4M

Smoke Sensor

- Smoke Sensor with 1M or 3M cord
- When smoke alarm triggers the red LED light is visible on the sensor with continuous audio alert

IP-S01-1M / 3M

Door Sensor

- Mechanical door sensor with 2M or 4M cord
- Cost efficient integration into rack

IP-DSW-2M/4M

< 1.3 > MiniBoot GUI Key Features

User-friendly GUI is included with MiniBoot. You can remotely manage the MiniBoot via the web browser.
It provides individual outlet switching On/Off, current monitoring and alarm alert functions. With enterprise level IP authentication, your can manage the MiniBoot remotely with high security.

MiniBoot Software

FREE MiniBoot Web Reboot Power GUI	
Functions	• Manual outlet on / off by GUI / SNMP • Automatic outlet on / off by scheduling , IP Ping and sensor condition • Aggregate current (Amp) monitoring • Alarm alert
Enterprise Level IP Authentication	• Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS) • Remote Access Dial-In User Service (RADIUS) protocol, or local credential database
Remote Management	• Protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4
Alarms / Alerts	• Receive alerts via SNMP, email (SMTP), and syslog when predefined thresholds are exceeded for both MiniBoot and environmental sensor events • Common SNMP MIBs (Management Information Base) for all MiniBoot models
SNMP	• SNMPv1/v2 & SNMPv3 for integration to DCIM

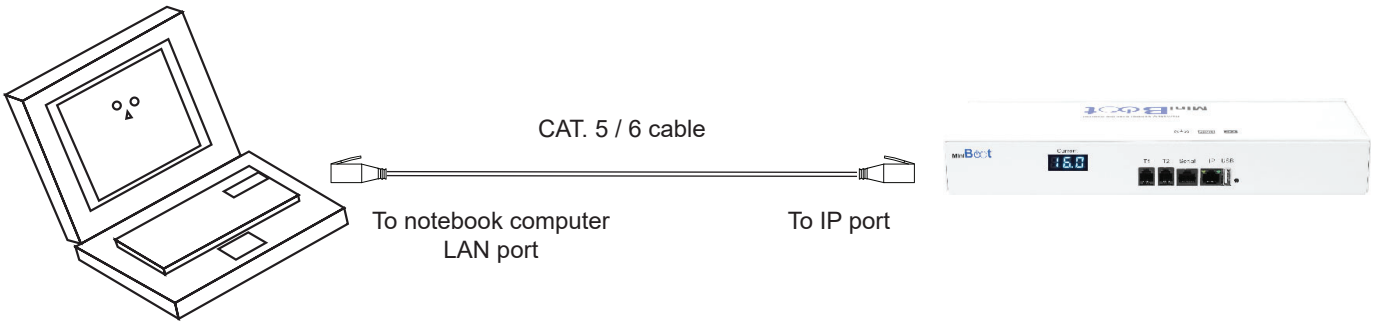
< 1.4 > Miniboot IP setting

The following steps show the static IP setting only. For DHCP setting, please refer to < **1.14** > DHCP Setting

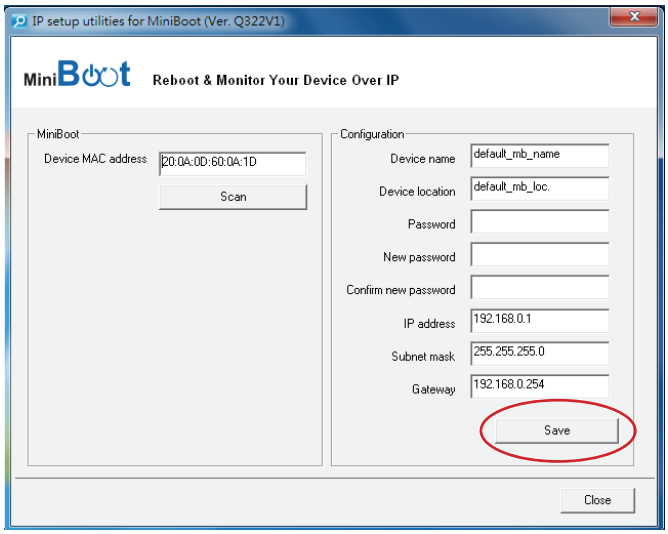
Step 1. Prepare a notebook computer to download the IP setup utilities from the link :
https://www.austin-hughes.com/MiniBoot_IPSetupUtilities.msi

Step 2. Double Click the MiniBoot_IPSetupUtilities.msi and follow the instruction to complete the instruction

Step 3. Connect the MiniBoot with the notebook computer using a piece of Cat. 5 / 6 cable to configure the IP setting by IP setup utilities as below. Please take the procedure for all MiniBoot **ONE BY ONE**



Reconnect the MiniBoot with the network device (router or hub), after finish IP configuration.



1. Write down the new IP address & password for login purpose, refer to <1.5>, < 1.10 >, < 1.13 > & < 1.14 >
2. Device name NOT EQUAL to login name of MiniBoot WEBUI. To change login name, pls refer to < 1.9 > Login.

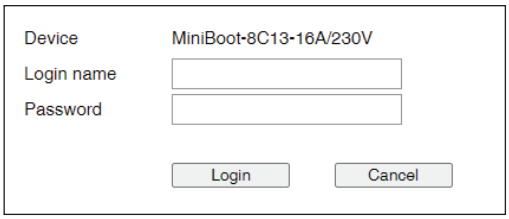
Step 4. Click **" Scan "** to search the connected MiniBoot
Step 5. Enter device name in " **Device name** " (min. 4 char. / max. 16 char.). Default is " **default_mb_name** "
Step 6. Enter device location in " **Device location** " (min. 4 char. / max. 16 char.). Default is " **default_mb_loc.** "
Step 7. Enter password in " **Password** " for authentication (min. 8 char. / max. 16 char.) Default is **" 00000000 "**
Step 8. Enter new password in " **New password** " (min. 8 char. / max. 16 char.)
Step 9. Re-enter new password in " **Confirm new password** "
Step 10. Change the desired " **IP address** " / " **Subnet mask** " / " **Gateway** ", then Click **" Save "** to confirm the changes
The default IP setting is as below:

IP address :	192.168.0.1
Subnet mask :	255.255.255.0
Gateway :	192.168.0.254

< 1.5 > MiniBoot GUI

Each MiniBoot comws with a FREE built-in GUI, which allows user, via a web browser, to monitor and manage the MiniBoot over a TCP / IP Ethernet network

Each web browser window supports only one MiniBoot. If you install more MiniBoot, multi windows will be required.



Step 1. Open Internet Explorer (I.E.), version 11.0 or above

Step 2. Enter the configured IP address of the MiniBoot into the I.E. address bar

(Default IP address is 192.168.0.1)

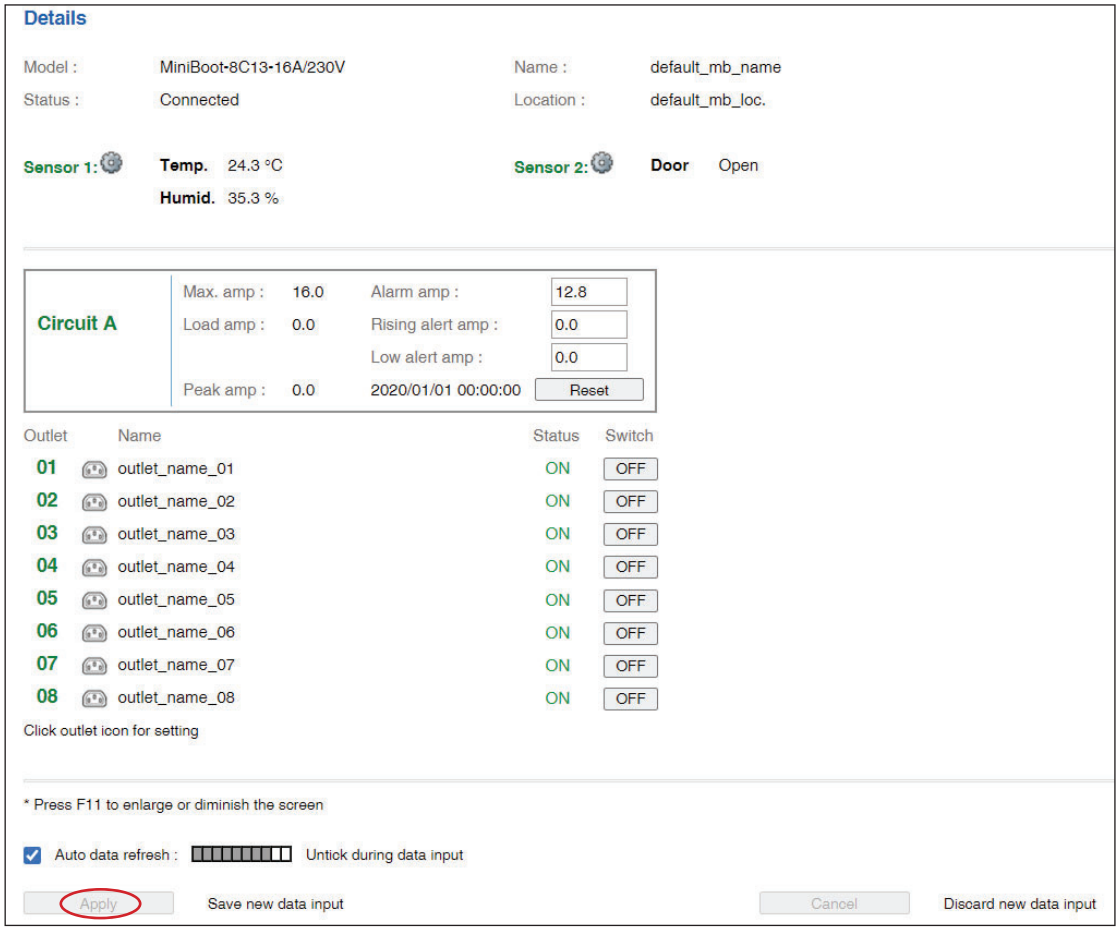
Step 3. Enter " **Login name** " , " **Password** " & Click " **Login** "

Default Login name : 00000000
Password : the one you set in Step. 7 of <1.4> MiniBoot IP Setting

< 1.5 > MiniBoot GUI

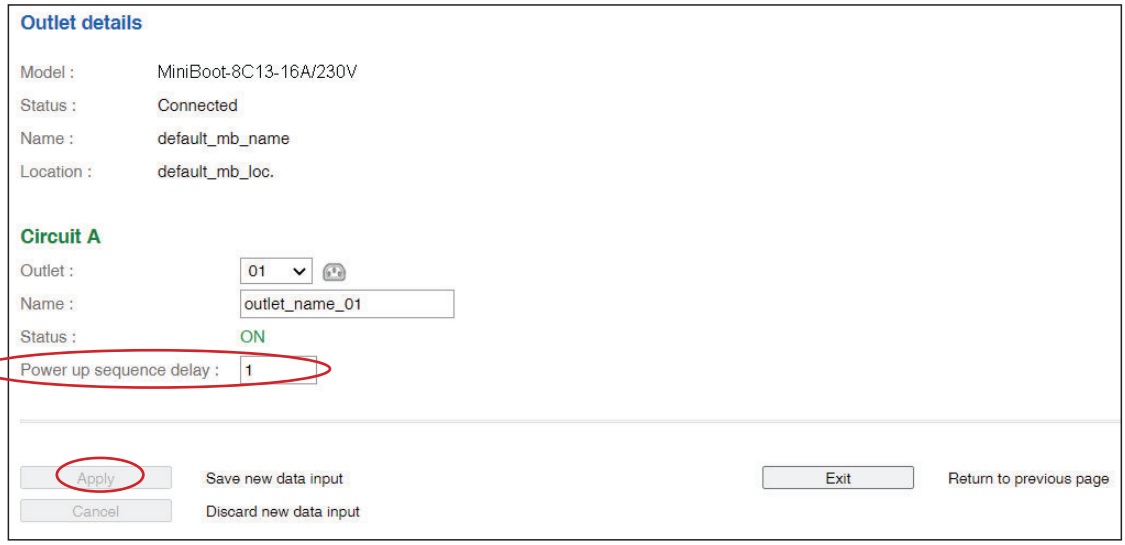
In < **Details** >,

- Change " **Name** " and " **Location** " of MiniBoot & Click " **Apply** "
- Change " **Alarm amp.** ", " **Rising alert amp.** " & " **Low alert amp.** " of MiniBoot's circuit & Click " **Apply** "
- Click " **Reset** " to reset peak amp. of MiniBoot's circuits
- Click " **ON** / **OFF** " to swich ON / OFF MiniBoot outlet
- View the outlet status of MiniBoot
- View aggregated current on the MiniBoot
- View the sensor reading / status connected to MiniBoot if any



In < **Outlet details** >,

- Change MiniBoot's outlet name
- Change " **Power up sequence delay** " of MiniBoot's outlet
- Click " **Apply** " to finish the above settings

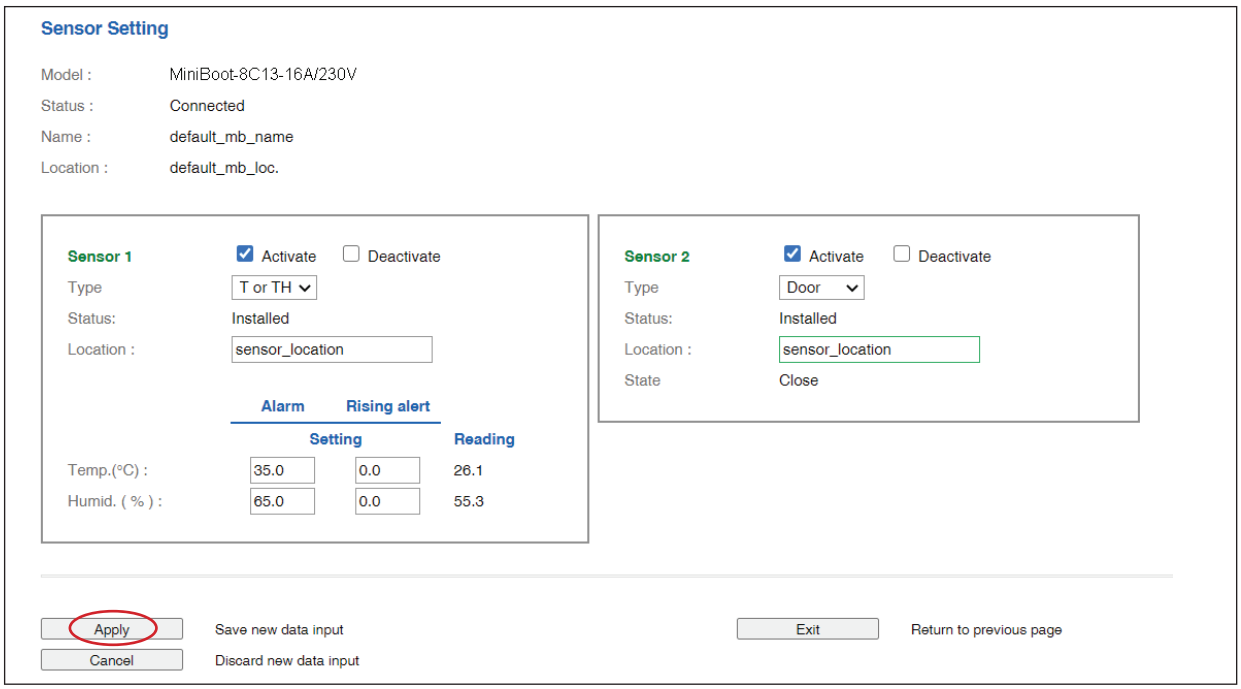


< 1.5 > MiniBoot GUI

In < **Sensor Setting** >,

- Default Sensor setting : Deactivate
- " **Activate** " sensors ONLY when they are connected
- Select " **Sensor type** " you installed to the MiniBoot
- Change " **Location** " , " **Rising alert Setting** " & "**Alarm Setting** " of Temp. or TH sensor
- Change " **Location** " of Door sensor & Smoke sensor
- Click " **Apply** " to finish the above settings

If no any sensor connected, NEVER activate.

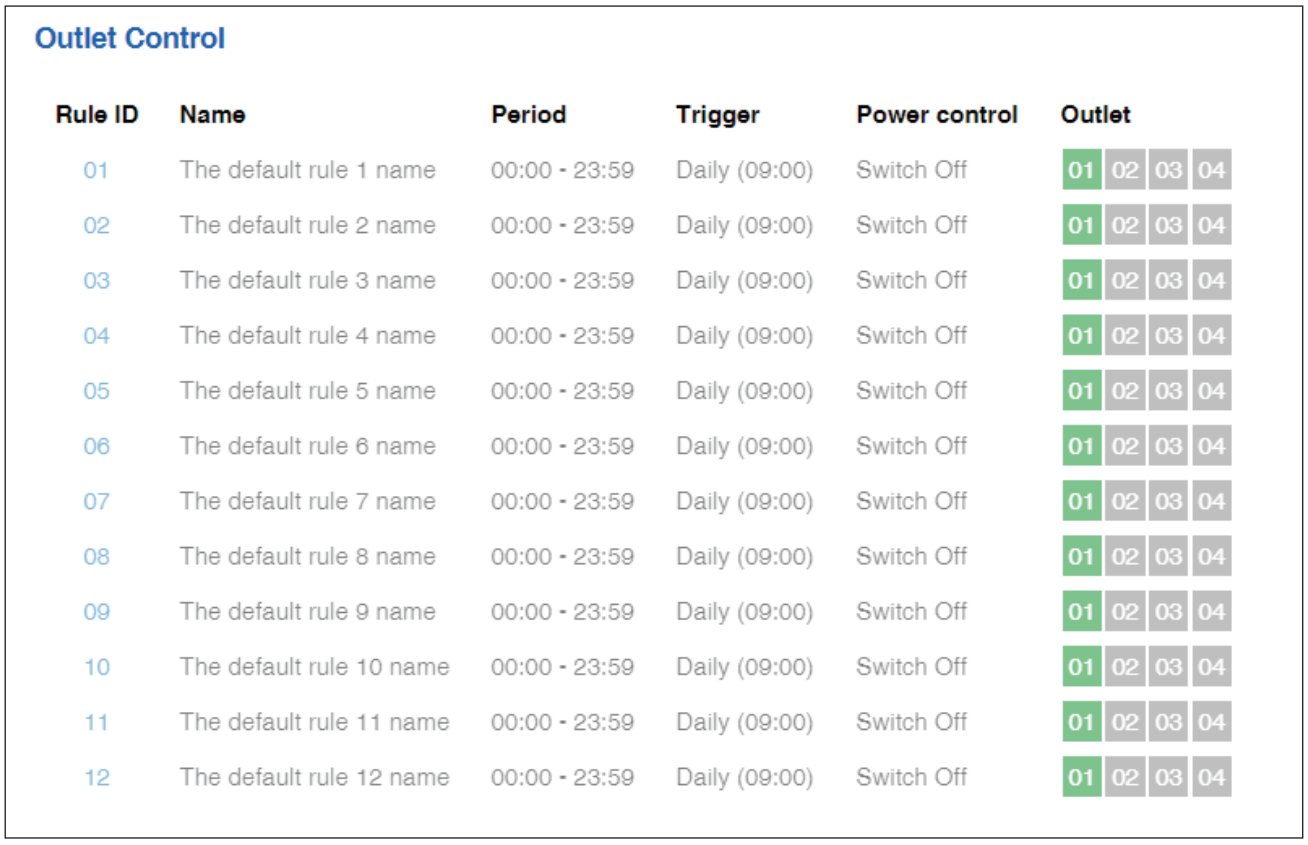


< 1.6 > Outlet Control

MiniBoot provides 3 ways (Time / Sensor / IP Ping) to monitor a variety of conditions and perform outlet control automatically when necessary. And MiniBoot offers 12 rules for outlet control.

To configure the outlet control rule :

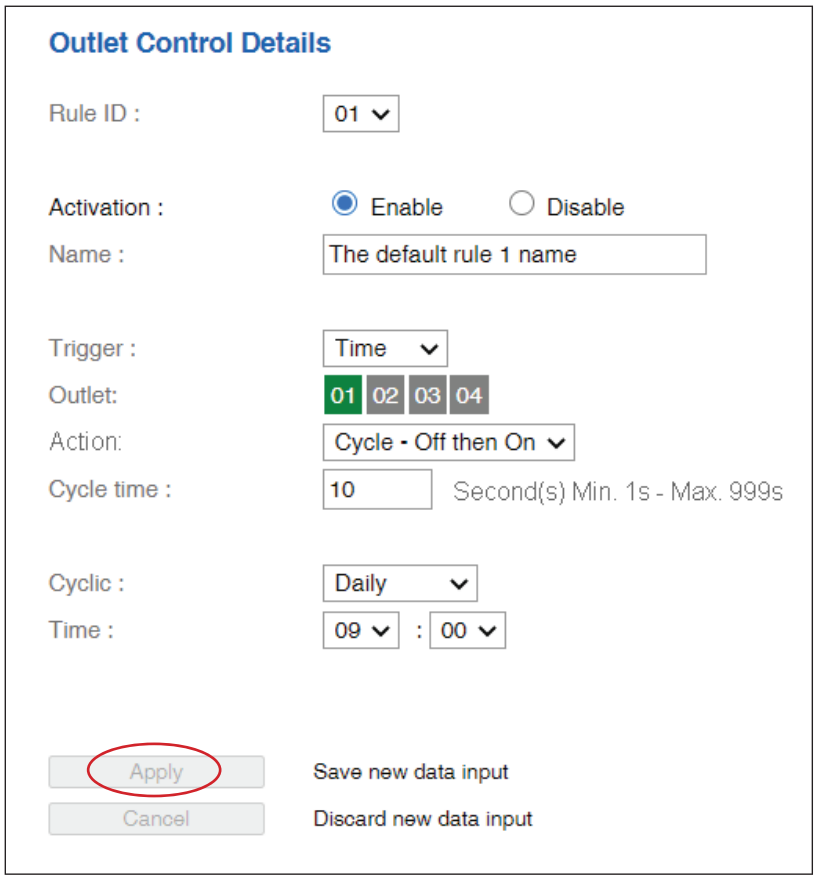
Select " **Outlet Control** " from left navigation pane



< 1.6 > Outlet Control

1. Outlet Schedule (Time)

Outlet schedule provides a way for you to switch on / off or repower (OFF then ON) an individual outlet or group of outlets at a specific time on one-time, daily or weekly basis.



Step 1. Enable the rule

Step 2. Enter the " **Name** " of the rule. (min. 1 / max. 48 char.)

Step 3. Select " **Time** " from " **Trigger** "

Step 4. Select the outlet(s) you want to monitor and the trigger will act upon

Step 5. Select " **Action** " (ON / OFF / " Cycle – Off then On ")

Step 6. Enter the " **Cycle time** " (for " **Cycle – Off then On** " power control type ONLY). It defines the time waiting for switching ON the outlet(s) after being switched OFF. (Default : 10s, min. 1s ~ max. 999s)

Step 7. Select " **One-time / Daily / Weekly** " from " **Cyclic** "

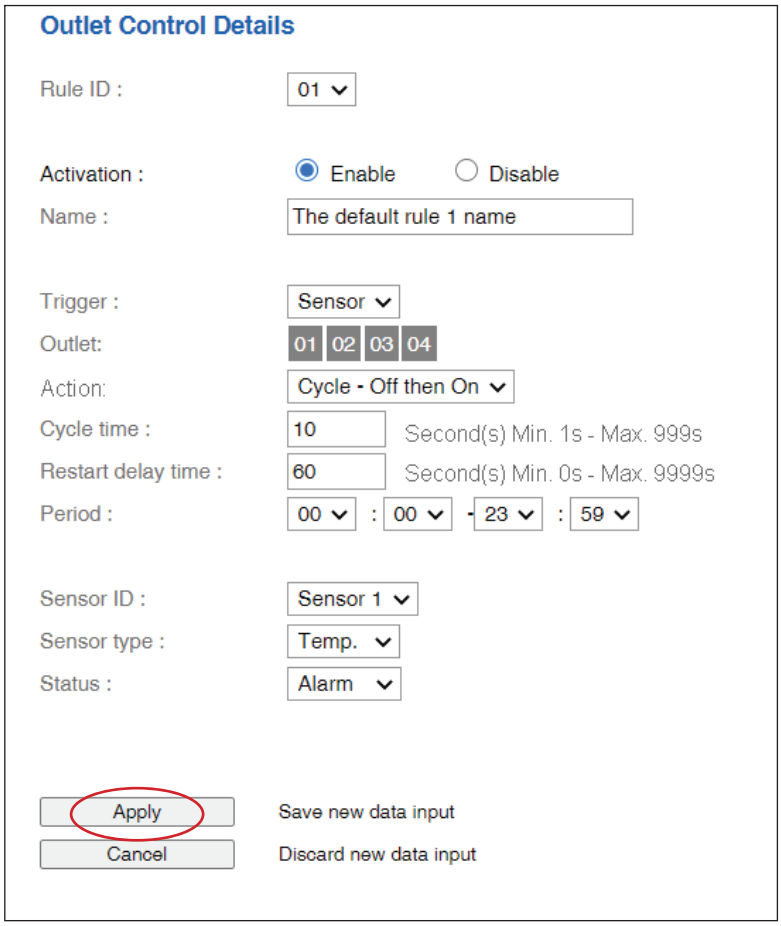
Step 8. Select " **Date** " & " **Time** " for One-time / " **Time** " for Daily / " **Weekday** " & " **Time** " for Weekly.

Step 9. Click " **Apply** " to save the settings.

< 1.6 > Outlet Control

2. Sensor

By monitoring the sensor (Temp. / Humid / Door / Smoke) status, you can configure MiniBoot to switch on / off or repower (OFF then ON) an individual outlet or group of outlets automatically once the sensor status is met.



Step 1. Enable the rule

Step 2. Enter the " **Name** " of the rule. (min. 1 / max. 48 char.)

Step 3. Select " **Sensor** " from " **Trigger** "

Step 4. Select the outlet(s) you want to monitor and the trigger will act upon

Step 5. Select " **Action** " (ON / OFF / Cycle – Off then On)

Step 6. Enter the " **Cycle time** " (for Cycle – Off then On power control type ONLY). It defines the time waiting for switching ON the outlet(s) after being switched OFF. (Default : 10s, min. 1s ~ max. 999s)

Step 7. Enter " **Restart delay time** ". (Default : 60s, min 0 ~ max. 9999s) It is the length of time in seconds to delay after initiating an action before beginning to restart the sensor status monitoring.

Step 8. Select the " **Period** " to define the time range in a day which the rule is effective. Default is from 00:00 ~ 23:59.

Step 9. Select the " **Sensor ID** " to be monitored

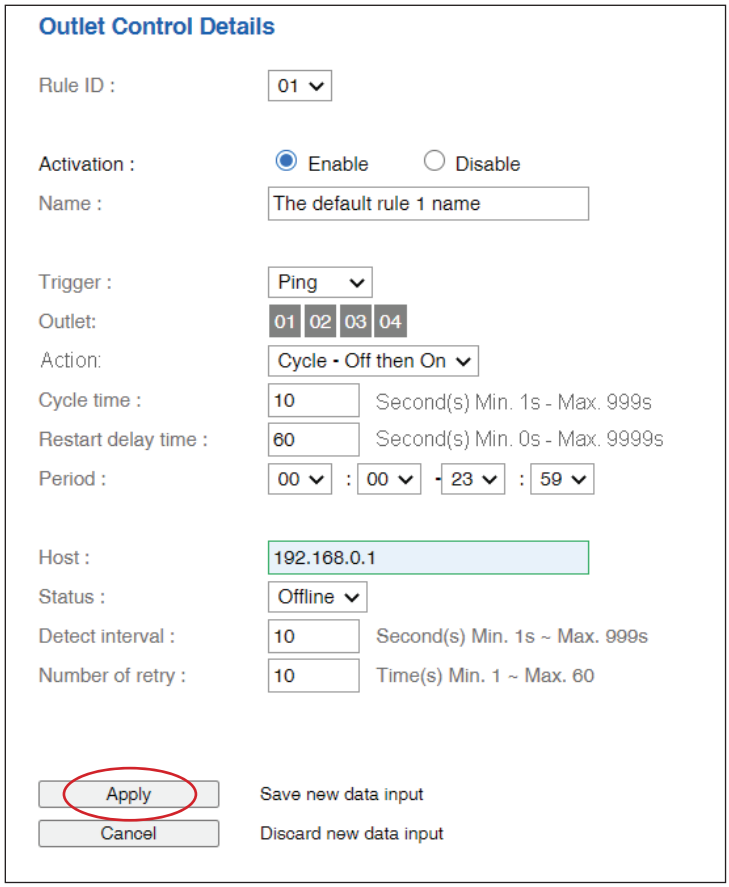
Step 10. Select " **Sensor type** " to be monitored.

Step 11. Select the " **Status** " of the sensor to initiate the power control. For example, you select alarm of Temp. sensor. The power control you selected will be initiated when the Temp. sensor is in alarm state.

< 1.6 > Outlet Control

3. IP Ping

IP Ping allows MiniBoot to automatically detect a failed system for timely reboot.



Step 1. Enable the rule

Step 2. Enter the " **Name** " of the rule. (min. 1 / max. 48 char.)

Step 3. Select " **Ping** " from " **Trigger** "

Step 4. Select the outlet(s) you want to monitor and the trigger will act upon

Step 5. Select " **Action** " (ON / OFF / Cycle – Off then On)

Step 6. Enter the " **Cycle time** " (for Cycle – Off then On power control type ONLY). It defines the time waiting for switching ON the outlet(s) after being switched OFF. (Default : 10s, min. 1s ~ max. 999s)

Step 7. Enter " **Restart delay time** ". (Default : 60s, min 0 ~ max. 9999s) It is the length of time in seconds to delay after initiating an action before beginning to restart the sensor status monitoring.

Step 8. Select the " **Period** " to define the time range in a day which the rule is effective. Default is from 00:00 ~ 23:59.

Step 9. Enter the IP address / domain name of the Host of the IP Ping

Step 10. Select the " **Status** " of the Host to initiate the power control.

Step 11. Enter " **Detect interval** ". It defines the time interval in seconds between each pinging test. (Default : 10s, min. 1s ~ max. 999s)

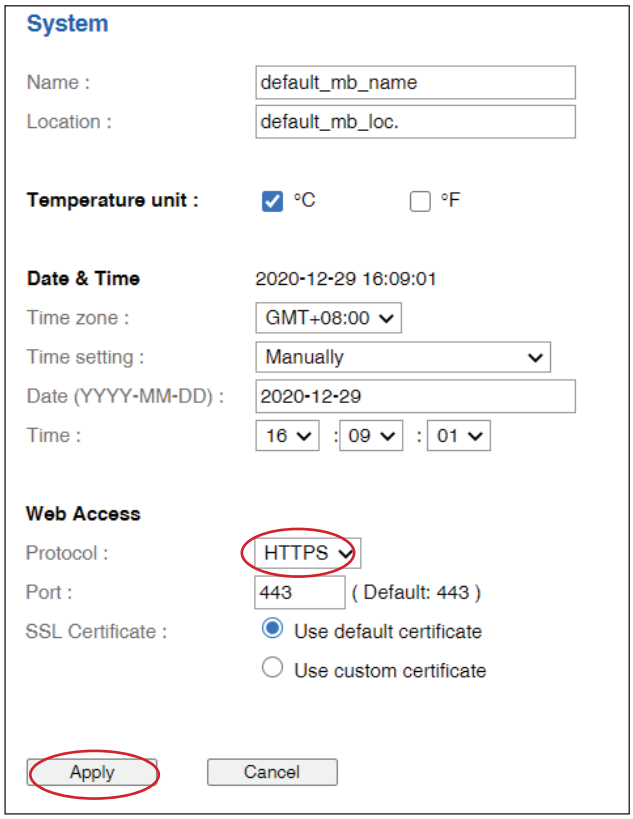
Step 12. Enter " **Number of retry** ". It defines the number of consecutive ping failure before the power control will be initiated. Default is 10.

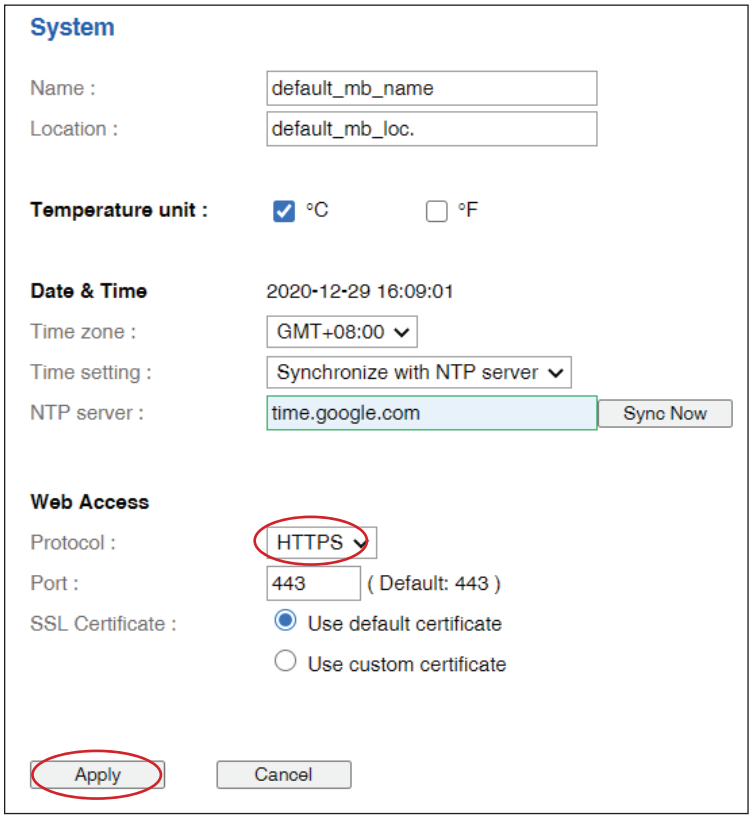
Step 13. Click " **Apply** " to save the settings.

< 1.7 > System

In < **System** >,

- Change MiniBoot name & location
- Change temperature unit displayed in WEBUI
- Set the " **Date & Time** " of MiniBoot (by " **Manually** " or " **NTP** "). Default is " **Manually** "
- Select " **HTTPS** " to provide data transmission security. Default Web Access is " **HTTPs** "
- Click " **Apply** " to finish the above settings

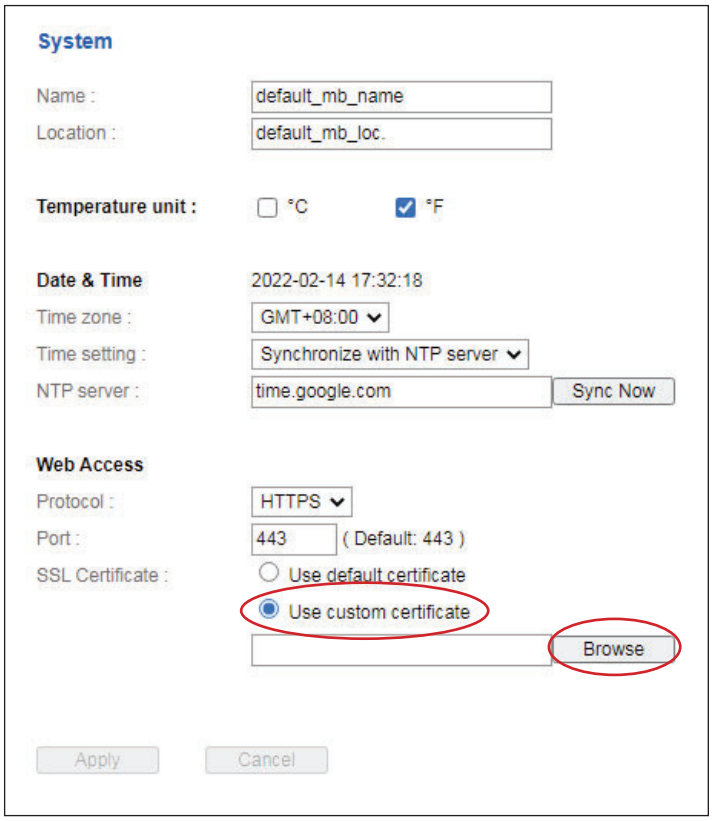




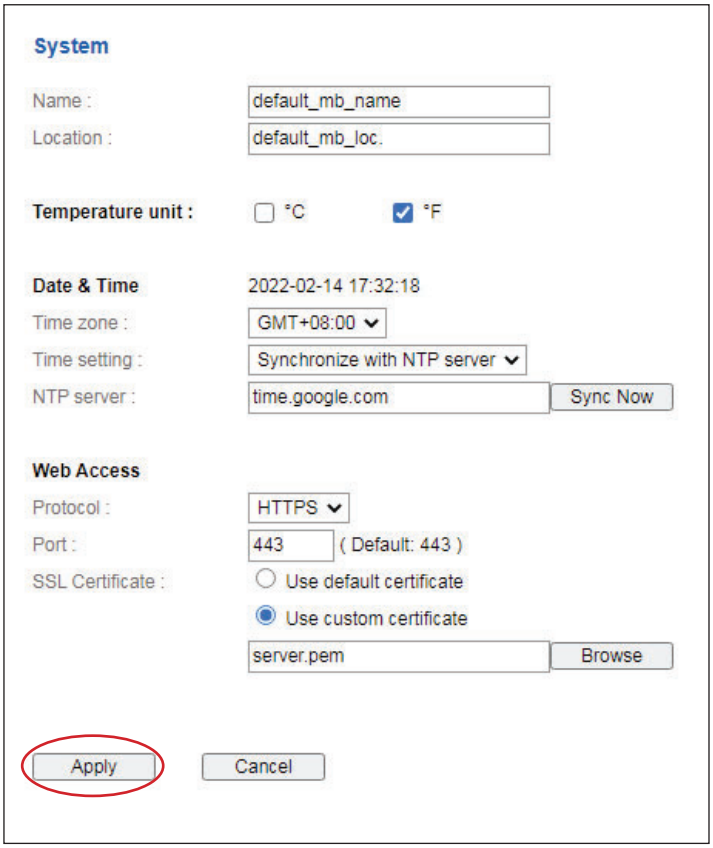
< 1.7 > System

If you want to use your own SSL certificate, please take the steps below :

- Select " **Use custom certificate** " & Click " **Browse** "



- Select the certificate in PEM file format & Click " **Open** "
- Click " **Apply** " & MiniBoot will reboot to make the change effective.



< 1.8 > Network

In < **Network** >, you can view the current IP setting of MiniBoot and allows changing of these parameters.

< **LAN settings** >

- Enter " **IPv4 address** ", " **IPv6 address** " , " **Subnet mask** " , " **Gateway** " (For static IP setting only)
- Enter the IP address of " **Primary DNS** ". Default is " **8.8.8.8** "
- Enter the IP address of " **Secondary DNS** ". Default is " **0.0.0.0** "
- Click " **Apply** " to finish the above settings

< **Wifi settings** >

Install the Wifi kit to the USB port of MiniBoot

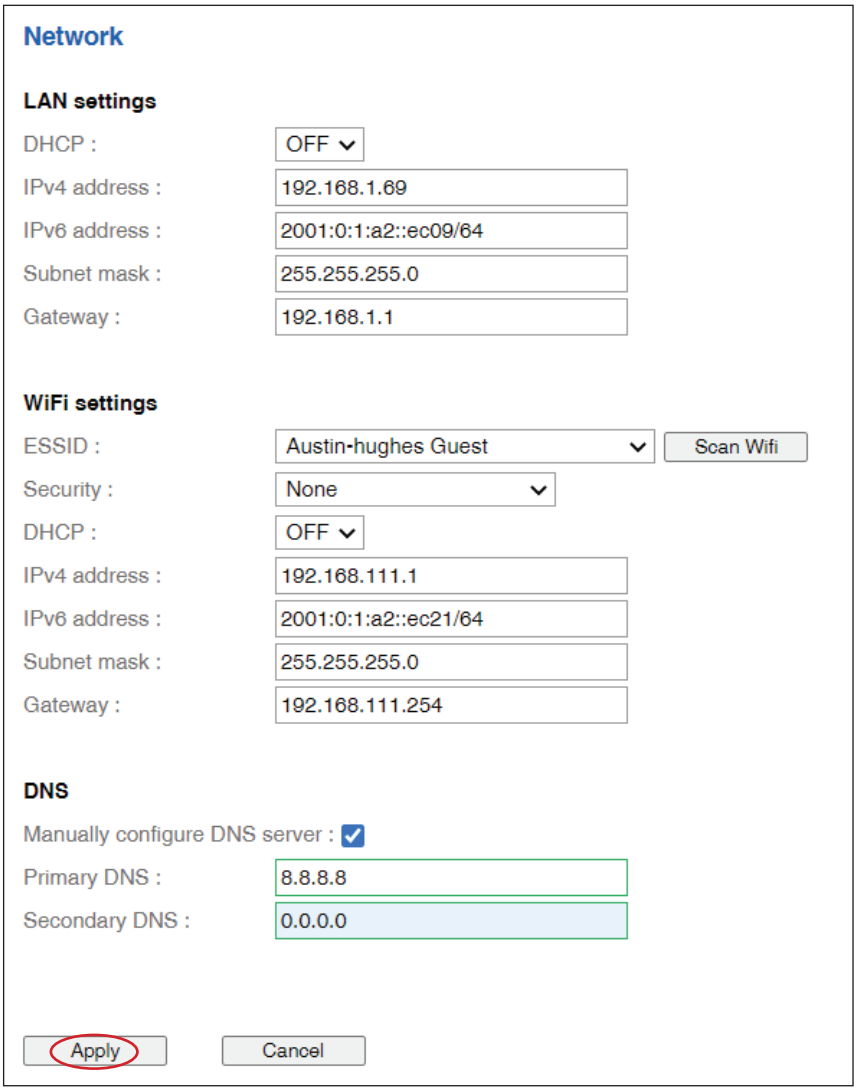
Click " **Scan Wifi** " to search the available Wifi network

Select the appropriate network from the pull down menu of " **ESSID** "

Select the security type (None / WPA2-Personal / WPA2-Enterprise)

Enter " **IPv4 address** ", " **IPv6 address** " , " **Subnet mask** " , " **Gateway** " (For static IP setting only)

Click " **Apply** " to finish the above settings



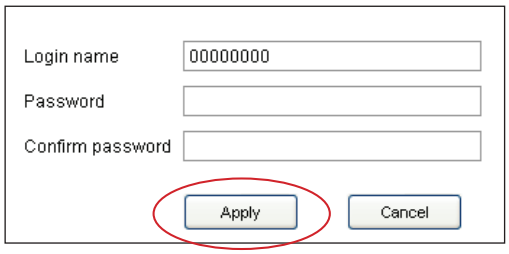
< 1.9 > Login

In < **Login** >, you can login the MiniBoot WEBUI by “ **Local User** ” or “ **Domain/LDAP** ” login.

(Default login : “ **Local User** ”)

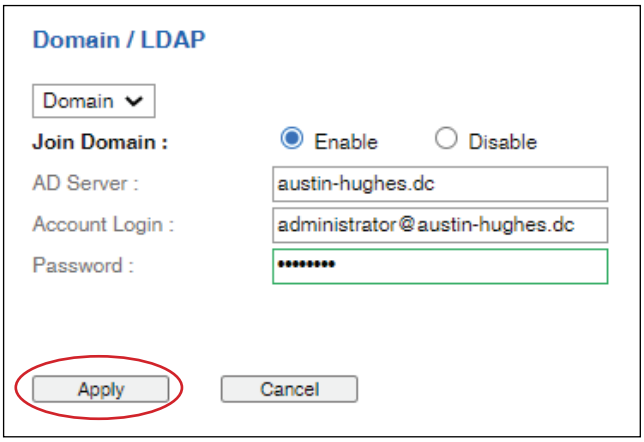
Local User :

- Change “ **Login name** ” OR “ **Password** ”
- Re-enter password in “ **Confirm password** ”
- Click “ **Apply** ” and “ **OK** “ on the pop up window to make changes effective



Domain/LDAP :

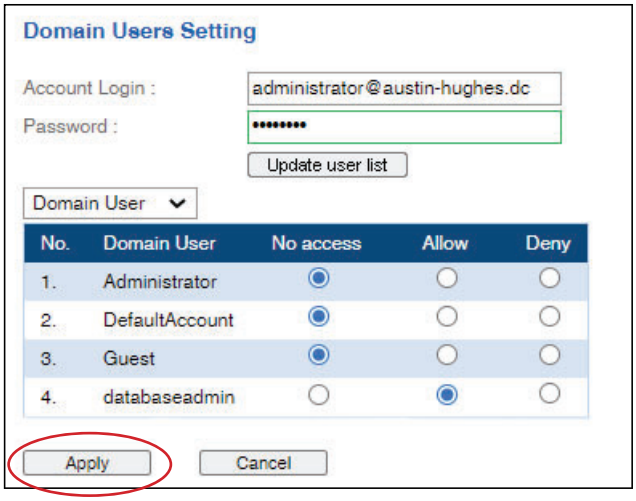
- Default Join Domain is **“ Disable “**
- Enable “ **Join Domain** ” only when you want to login the MiniBoot WEBUI by AD server
- Enter “ **AD Server** ”,“ **Account Login** ” & “ **Password** ”
- Click “ **Apply** ” and “ **OK** “ on the pop up window to make changes effective
- You can now go to “ **Domain Users** ” to assign access right to the **“ Domain Users ”** or the **“ Domain Group ”**



< 1.9 > Login

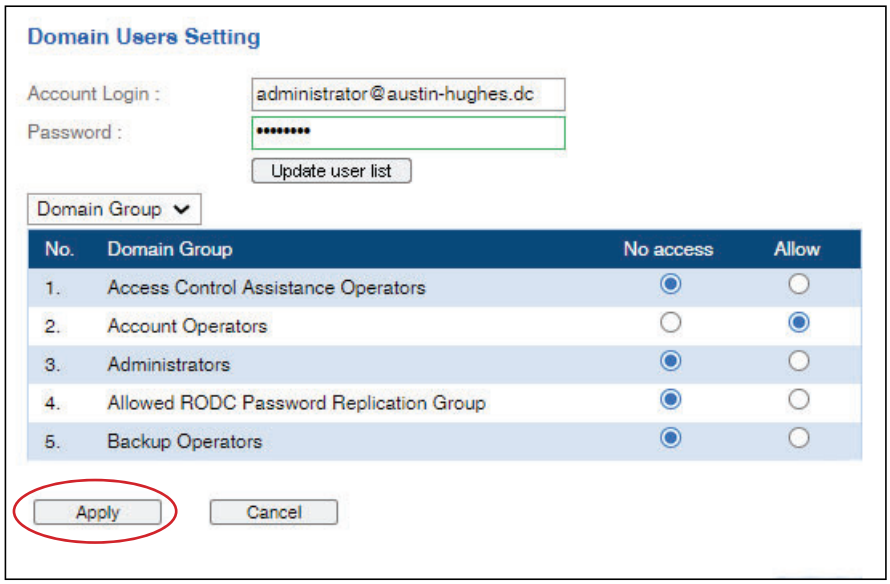
In " **Domain Users Setting** ",

- Enter " **Password** ".
- Click **" Update user list "** to update domain user list.
- Assign access right (No access / Allow / Deny) to **" Domain Users "** and click **" Apply "**.
- The Domain User assigned **" Allow "** access right can login the MiniBoot WEBUI.



In " **Domain Users Setting** ",

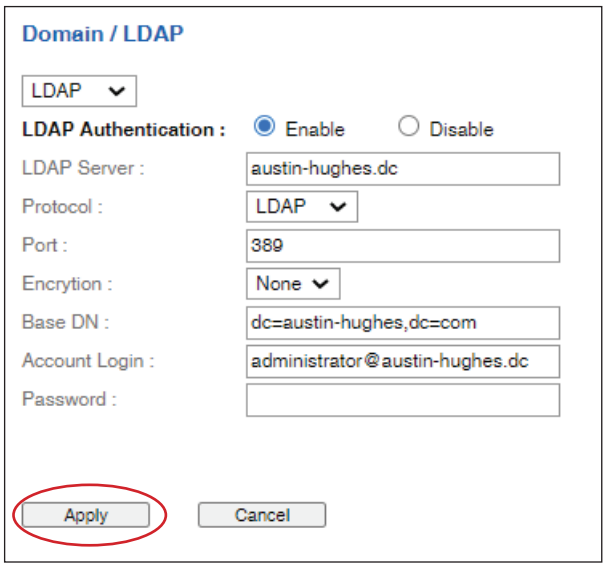
- Enter " **Password** ".
- Click **" Update user list "** to update domain group list.
- Assign access right (No access / Allow) to **" Domain Group "** and click **" Apply " .**
- The Users of the Domain Group assigned **" Allow "** access right can login the MiniBoot WEBUI.



< 1.9 > Login

Domain/LDAP :

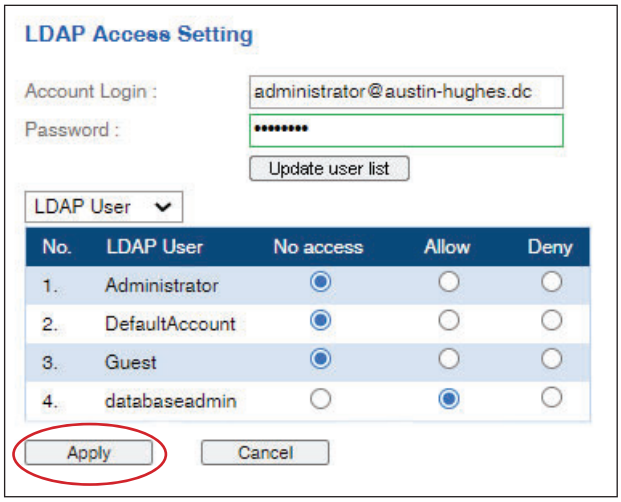
- Default LDAP Authentication is **“ Disable “**
- Enable **“ LDAP Authentication ”** only when you want to login the MiniBoot WEBUI by LDAP server
- Enter “ **LDAP Server** ”,
- Select “ **Protocol** ”(LDAP / LDAPS). Default is **“ LDAP “**
- Enter **“ Port “**. Default is **“ 389 “**
- Select “ **Encrytion** ”(None / SSL). Default is **“ None “**
- Enter **“ Base DN “**.
- Enter “ **Account Login** ” & “ **Password** ”.
- Click “ **Apply** ” and “ **OK** “ on the pop up window to make changes effective
- You can now go to “ **LDAP Users** ” to assign access right to the **“ LDAP User ”** or the **“ LDAP Group ”**



< 1.9 > Login

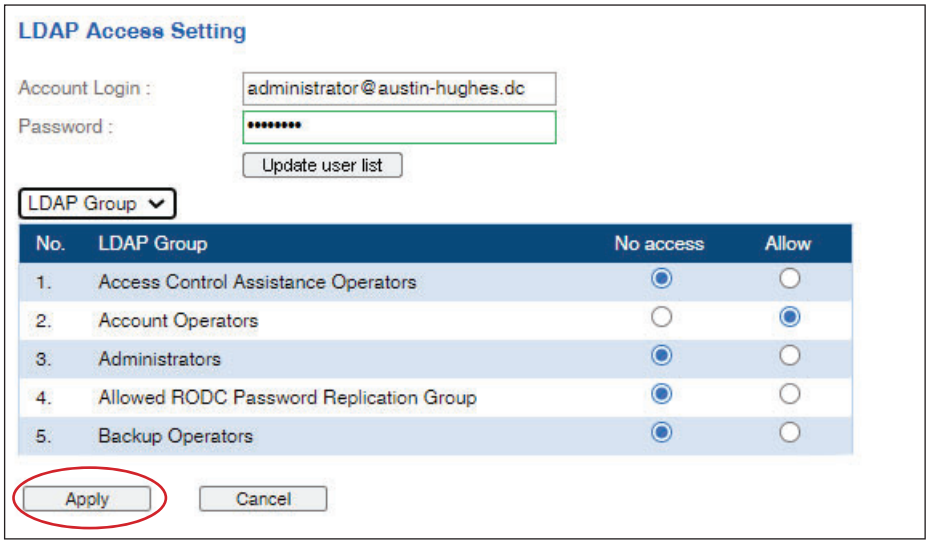
In " **LDAP Access Setting** ",

- Enter " **Password** ".
- Click **" Update user list "** to update domain user list.
- Assign access right (No access / Allow / Deny) to **" LDAP User "** and click **" Apply " .**
- The LDAP User assigned **" Allow "** access right can login the MiniBoot WEBUI.



In " **LDAP Access Setting** ",

- Enter " **Password** ".
- Click **" Update user list "** to update domain user list.
- Assign access right (No access / Allow / Deny) to **" LDAP Group "** and click **" Apply " .**
- The LDAP Group assigned **" Allow "** access right can login the MiniBoot WEBUI.



< 1.10 > SNMP Setup

MiniBoot not only be monitored and managed by WEBUI but also via SNMPv1/v2 or v3.

(I). Accessing MIB Files

Step 1. Click the following link to go to the mangement software download page :

http://www.austin-hughes.com/resources/miniboot/software

(II). Enabling SNMP Support

i. The following steps summarize how to enable the MiniBoot for SNMP v1 / v2 support.

Step 1. Connect the MiniBoot to a computer.

Step 2. Open the Internet Explorer (I.E.) version 11.0

Step 3. Enter the configured IP address into the I.E. address bar.

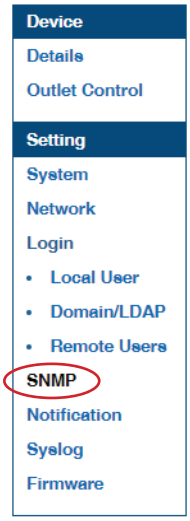
Default IP address of is " **192.168.0.1** "

Step 4. Enter " **Login name** " & " **Password** ".

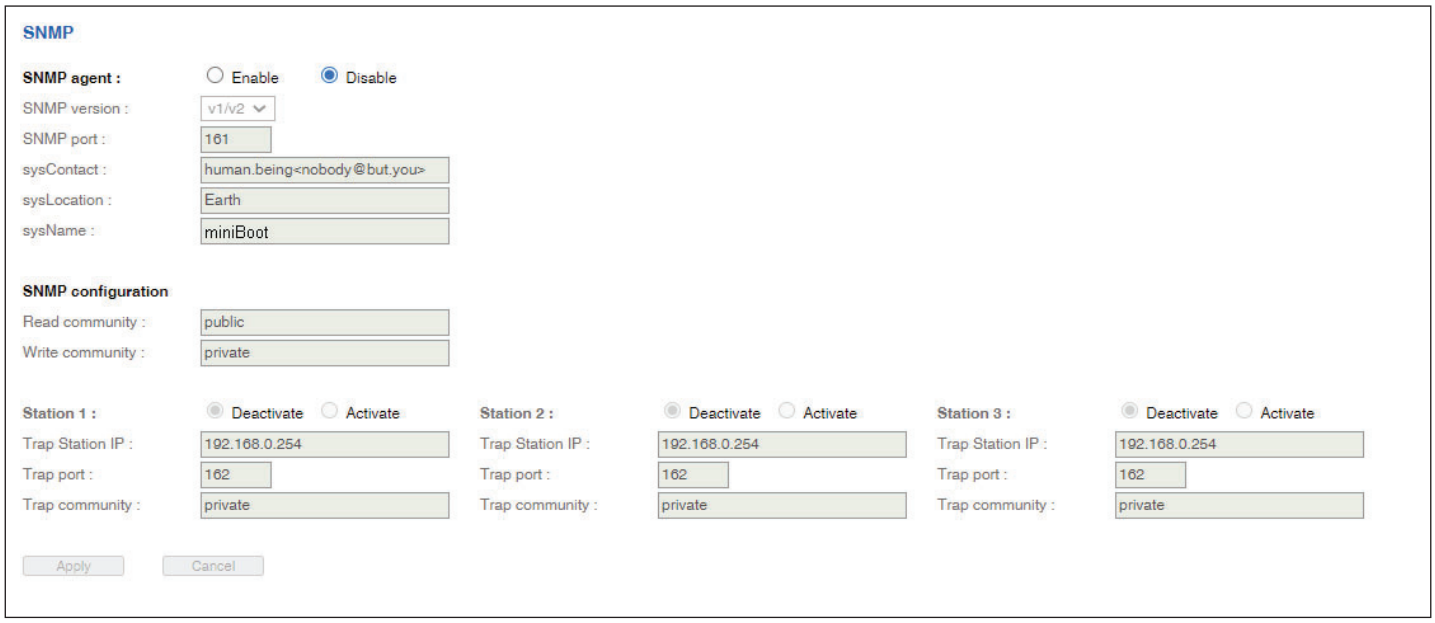
Default Login name : 00000000
Password : the one you set in Step. 7 of <1.4> MiniBoot IP Setting

< 1.10 > SNMP Setup

Step 5. Select the SNMP from the left navigation pane



Step 6. The SNMP Settings window appears as below:



Step 7. Click **“ Enable “** in **“ SNMP agent “** to start the SNMP agent service

Step 8. Select **“ v1/v2 “** in **“ SNMP version “**

Step 9. Input **“ SNMP port “.** Default is 161

Step 10. Input “ **sysContact** “. Default is human.being<nobody@but.you>

Step 11. Input “ **sysLocation** “. Default is Earth

Step 12. Input “ **sysName** “. Default is miniBoot

Step 13. Input **“ Read Community “.** Default is public

Step 14. Input **“ Write Community “.** Default is private

Step 15. Click **“ Activate “** in Station 1 to enable the trap service

Step 16. Input **“ Trap Station IP “ , “ Trap Port “** & **“ Trap Community “** of Station 1

Step 17. Repeat Step 14 & 15 for Station 2 & 3

Step 18. Click **“ Apply “** to finish the SNMP v1 / v2 settings

< 1.10 > SNMP Setup

ii. The following steps summarize how to enable the MiniBoot for SNMP v3 support.

Step 1. Connect the MiniBoot to a computer. (Please refer to < 1.4 > MiniBoot IP setting)

Step 2. Open Internet Explorer (I.E.) version 11.0

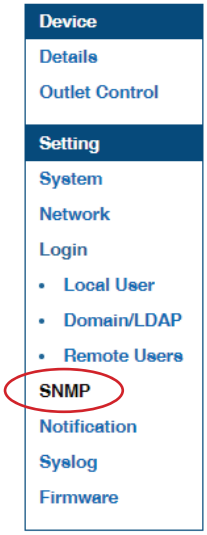
Step 3. Enter the configured MiniBoot address into the I.E. address bar.

Default IP address is " **192.168.0.1** "

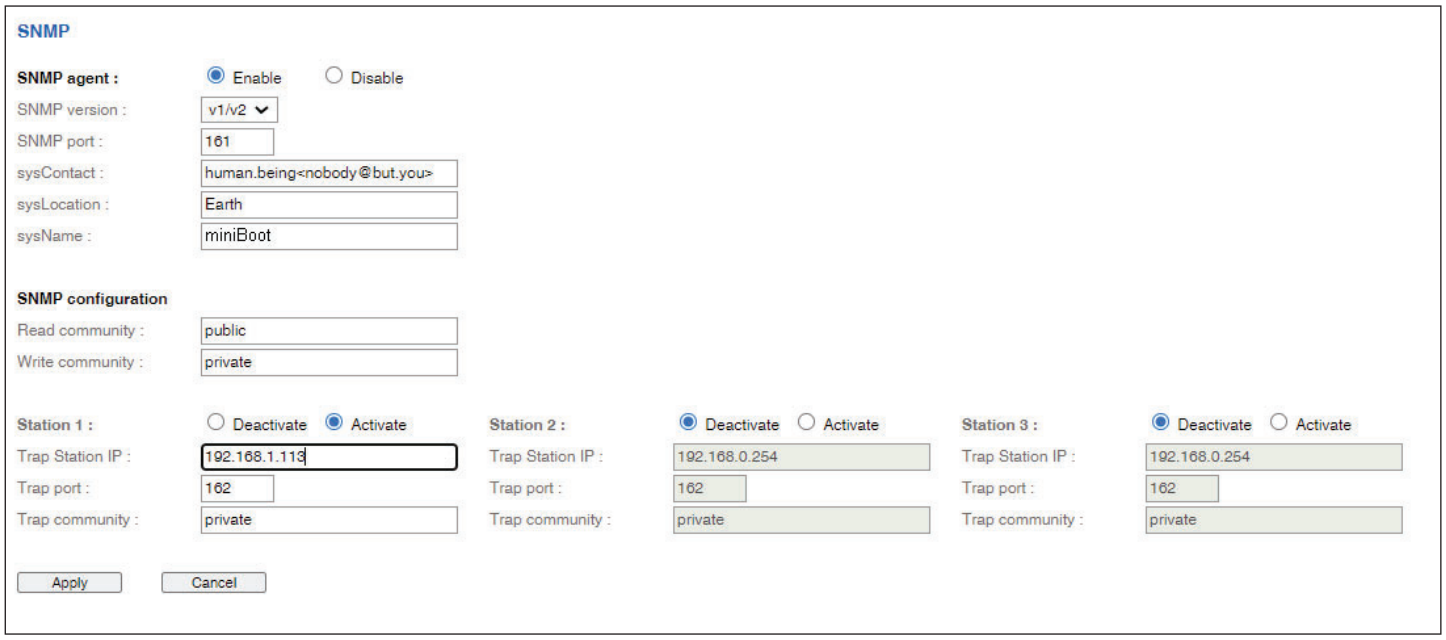
Step 4. Enter " **Login name** " & " **Password** ".

Default Login name : 00000000
Password : the one you set in Step. 7 of <1.4> MiniBoot IP Setting

Step 5. Select SNMP from the left navigation pane



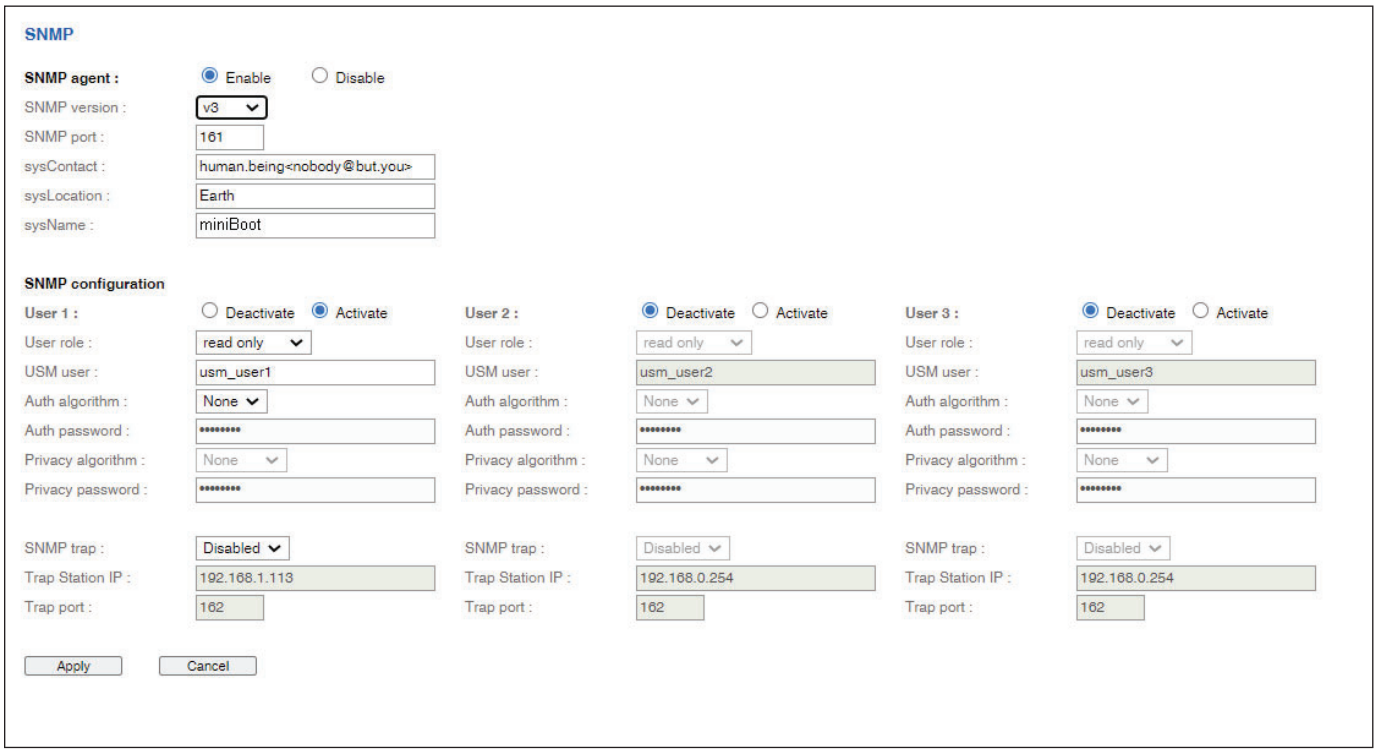
Step 6. The SNMP Settings window appears as below:



< 1.10 > SNMP Setup

Step 7. Click **“ Enable “** in **“ SNMP agent “** to start the SNMP agent service

Step 8. Select **“ v3 “** in **“ SNMP version “** & the SNMP v3 settings window appears as below :



Step 9. Input **“ SNMP port “**. Default is 161

Step 10. Input “ **sysContact** “. Default is human.being<nobody@but.you>

Step 11. Input “ **sysLocation** “. Default is Earth

Step 12. Input “ **sysName** “. Default is miniBoot

Step 13. Click **“ Activate “** in User 1

Step 14. Select **“ Read Only “** or **“ Read & Write “** in User role :

Step 15. Input the name of **“ USM user “** . Default is usm_user1

Step 16. Select **“ None / MD5 / SHA “** in **“ Auth algorithm “**.

If you select **“ Read & Write “** in **“ User role: “** ,

you MUST select **“ MD5 / SHA “** in **“ Auth algorithm “**

Step 17. Input the **“ Auth password: “** Default is “ 00000000 ‘

Step 18. Select **“ None / DES / AES / AES192 / AES256 “** in **“ Privacy algorithm “**.

If the Auth algorithm is **“ NONE “** , NO privacy algorithm can be selected.

Step 19. Input the **“ Privacy password “**

Step 20. If you want to receive trap message, select **“ Enable “ in SNMP trap**

Step 21. Input the **“ Trap Station IP “** & **“ Trap port “**

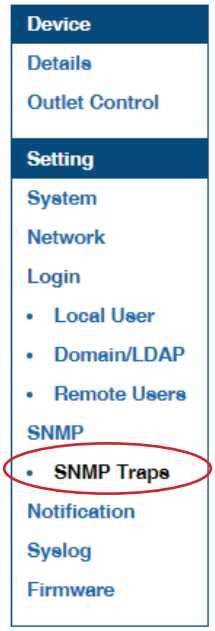
Step 22. Repeat step 12 to 20 for User 2 & 3

Step 23. Click **“ Apply “** to finish the SNMP v3 settings.

< 1.10 > SNMP Setup

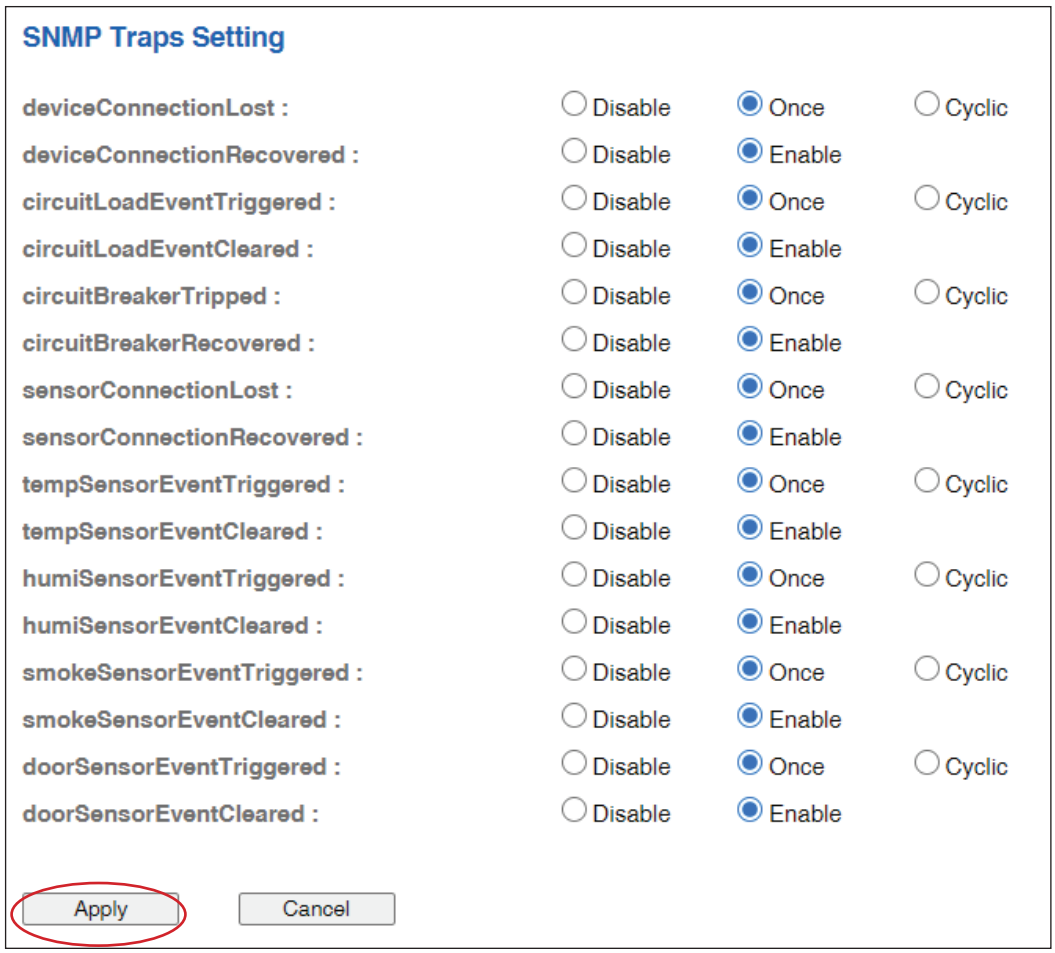
(III). SNMP Traps Setting

After enable SNMP, you can click “ SNMP Traps “ to go to the “ SNMP Traps Setting “ page



Below is the default setting for each MiniBoot SNMP trap.

You can set the SNMP trap option and Click “ Apply “ to finish the settings.



< 1.11> Notification

In **< Notification >** , you can configure the alarm email server & max. 5 email recipients to receive alarm notifications from the MiniBoot.

Default is **“ Disable ”.**

Step 1. **“ Enable ”** alarm email

Step 2. Enter **“ SMTP server ”** and **“ SMTP port ”**. Default is **“ Port 25 ”**

Step 3. **“ Enable ”** or **“ Disable ”** the **“ SMTP authentication “**. Default is **“ Disable ”**

Step 4. Enter **“ User name “** and **“ Password “** when SNMP authentication is enabled

Step 5. Select the **“ secure connection “** (None, SSL / TLS & STARTTLS). Default is **“ None ”**

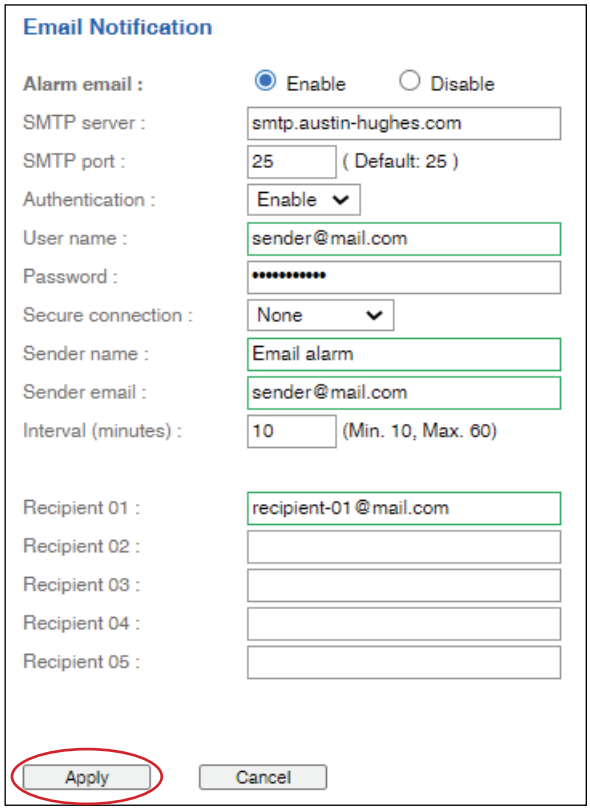
Step 6. Enter the **“ Sender Name ”** and **“ Sender Email ”**

Step 7. Enter the **“ Alarm Interval ”. (Min. 10, Max. 60 mins)**

Step 8. Enter the alarm recipient email account in **“ Recipient 01 ”**

Step 9. Repeat step 8 for other recipients

Step 10. Click **“ Apply “** to finish the alarm email server setting



< 1.12 > Syslog

In **< Syslog >** , you can view the latest 2000 device and system log

Syslog

#	Type	Date & Time	Event
1	System	2020-12-30 09:24:52	2020-12-30,01:24:48.0,+00:00 : User(00000000) from IP 192.168.1.113 login successfully.
2	System	2020-12-30 09:19:07	Change outlet power control settings
3	System	2020-12-29 17:41:30	Change SNMP Trap Settings
4	System	2020-12-29 16:05:46	Synchronize with NTP server - success
5	System	2020-12-29 10:43:01	2020-12-29,02:43:00.0,+00:00 : User(00000000) from IP 192.168.1.179 login successfully.

< 1.13 > MiniBoot Firmware Upgrade

< Firmware Upgrade >

For function enhancement of MiniBoot WEBUI, please take the following steps to remotely upgrade the MiniBoot firmware :

Step 1. Click the following link to go to the mangement software download page :

http://www.austin-hughes.com/resources/miniboot/software

Step 2. Connect the MiniBoot to the computer.

Step 3. Open the Internet Explorer (I.E.) version 11.0

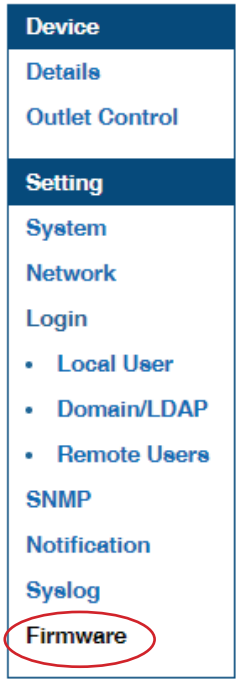
Step 4. Enter the configured MiniBoot address into the I.E. address bar.

Default IP address is " **192.168.0.1** "

Step 5. Enter " **Login name** " & " **Password** ".

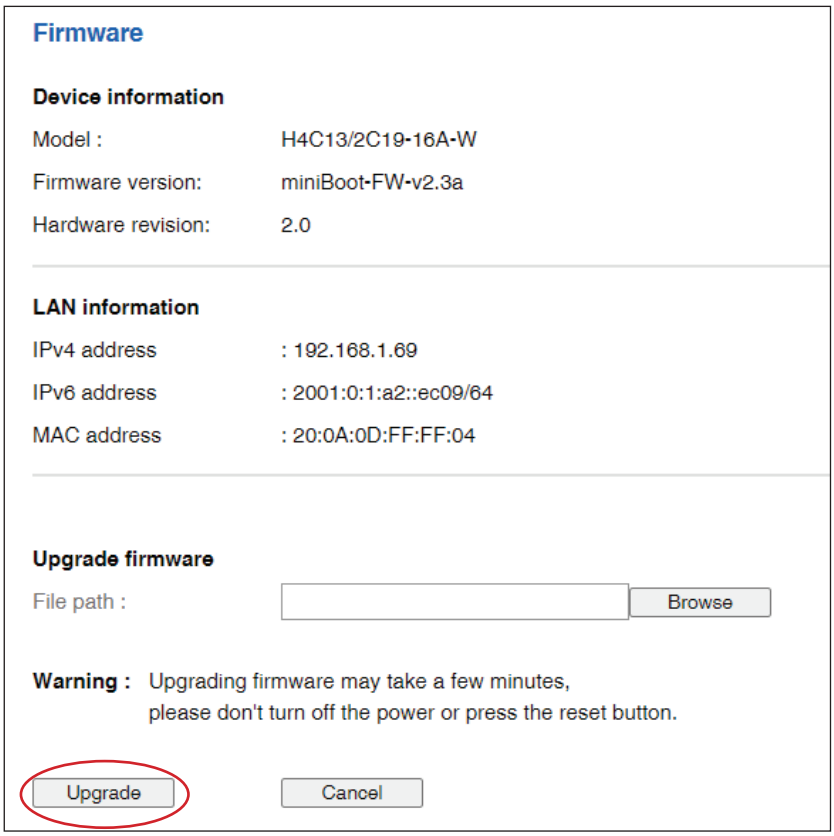
Default Login name : 00000000
Password : the one you set in Step. 7 of <1.4> MiniBoot IP Setting

Step 6. Select the Firmware from the left navigation pane



< 1.13 > MiniBoot Firmware Upgrade

Step 7. The firmware upgrade window appears as below :



Step 8. Click " **Browse** " and select the firmware file (xxx.enc) from the specific path in the pop up window and Click " **Open** "

Step 9. Click " **Upgrade** " to start the upgrade process. It takes a few minutes to complete.

Step 10. Once complete, UI will return to the login page.

< 1.14 > DHCP Setting

Step 1. Connect the MiniBoot to the computer

Step 2. Open the Internet Explorer (I.E.) version 11.0

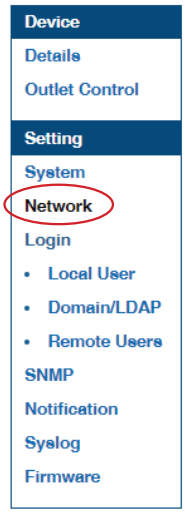
Step 3. Enter the configured MiniBoot address into the I.E. address bar.

Default IP address is " **192.168.0.1** "

Step 4. Enter the " **Login name** " & " **Password** " .

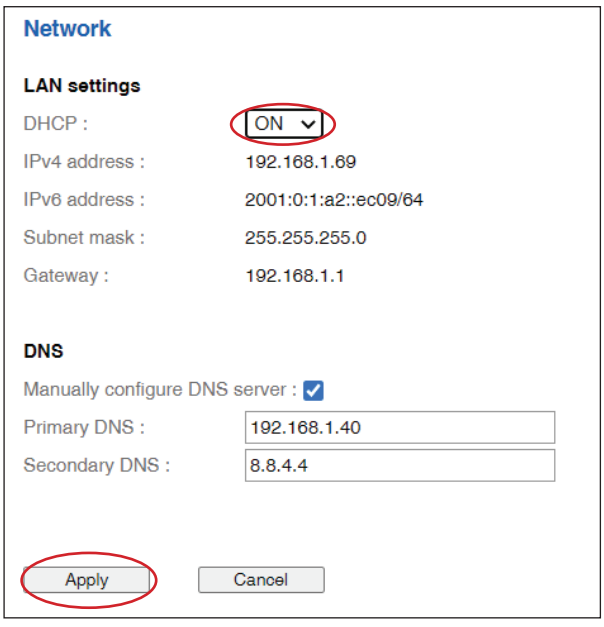
Default Login name : 00000000
Password : the one you set in Step. 7 of <1.4> MiniBoot IP Setting

Step 5. Select " **Network** " from the left navigation pane



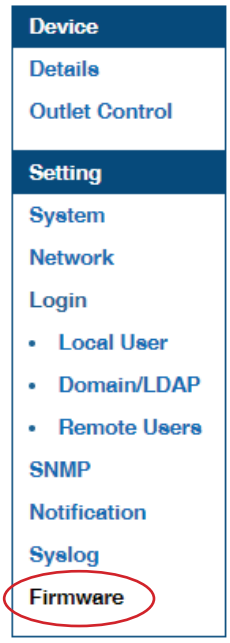
Step 6. Select " **ON** " from " **DHCP** ".

Click " **Apply** " to save the settings

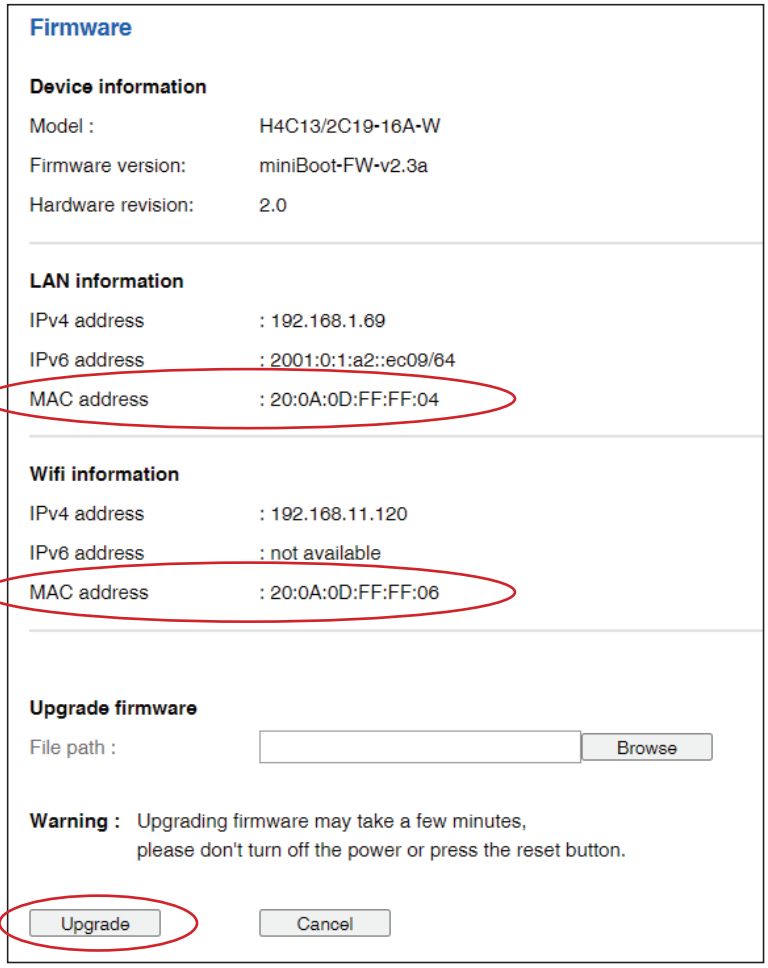


< 1.14 > DHCP Setting

Step 7. Select " **Firmware** " from the left navigation pane



Step 8. Record the " **MAC address** "



Step 9. Assign an IP address of MiniBoot from your DHCP server.

< 1.15 > Command Line Interface Access

Command Line Interface (CLI) allows you access MiniBoot using Telnet or Secure Shell (SSH)to configure the system settings and login settings either via the network interface or serial port.

By default, CLI access via SSH is enabled whereas Telnet is disabled.

CLI and MiniBoot WEBUI shares the same login name & password. (default login name & password are " 00000000 ")

You can change the following settings via CLI access :

(I). System settings

- Change temperature display unit : change the temp unit displayed on the WEBUI
- Change network settings : change IP setting of MiniBoot
- Change features & services
  1. Enable / disable SNMP agent
  2. Enable / disable FTP server (Default : Disable)
  3. Enable / disable WEBUI
  4. Enable / disable UDP (When disabled, MiniBoot CANNOT be found by IP setup utilities)
  5. Enable / disable Telnet (Default : Disable)
  6. Enable / disable maintenance (service) account (Default : Disable)
  7. Enable / disable HTTPS

(II). Login settings

- Change login name
- Change login password
- Reset to default login name & password