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User Manual

IP dongle GUI & SNMP



Legal Information

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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 40° Celsius (104° 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 B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

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.

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< 1.1 > IP Dongle GUI Key Features

IP Dongle GUI Management is a **FREE** built-in GUI of each IP dongle (IPD-02-S only) to remotely monitor the connected PDUs (max. up to 16 PDU levels)

Features		
Capacity	IP Dongle Group (Just 1 for 16 PDU levels)	1
	PDU number	16
	Concurrent Users	1
Enhanced Features	Outlet Level kWh & Amp Measurement	✓
	Outlet Scheduling	✓
	Energy Consumption (kWh) Monitoring	✓
	Apparent Power (kVA) Monitoring	✓
	Power Factor Measurement	✓
	Circuit Breaker (MCB) Monitoring	✓
Basic Features	Aggregate Current (Amp) Monitoring	✓
	Individual Outlet Switch ON/OFF	✓
	Temp-Humid Monitoring	✓
	Alarm Threshold Setting	✓
	Rising Alert Threshold Setting	✓
	Door & Smoke Sensor Monitoring	✓
	Remote Access via Web	✓
	Graphic User Interface	✓
PDU Series Support	Single & 3 Phase W Monitored PDU	✓
	Single & 3 Phase Wi Monitored PDU (Outlet Measurement)	✓
	Single & 3 Phase WS Switched PDU	✓
	Single & 3 Phase WSi Switched PDU (Outlet Measurement)	✓
	Single & 3 Phase Dual Feed W Monitored PDU	✓
	Single & 3 Phase Dual Feed Wi Monitored PDU (Outlet Measurement)	✓
	Single & 3 Phase Dual Feed WS Switched PDU	✓
	Single & 3 Phase Dual Feed WSi Switched PDU (Outlet Measurement)	✓
	Single & 3 Phase inline meter	✓
	Single & 3 Phase Dual Feed inline meter	✓

< 1.2 > IP Dongle Installation & Meter (PDU) Cascade

IP Dongle Access to 16 PDU Levels

Patented IP Dongle provides IP remote access to the PDUs by a true network IP address chain. Only 1 x IP dongle allows access to max. 16 PDUs in daisy chain - which is a highly efficient application for saving not only the IP remote accessories cost, but also the true IP addresses required on the PDU management.

Hot-Pluggable design facilitates the IP dongle installation. Simply integrate the IP Dongle to the 1st PDU, then the entire daisy chain group can be remote over IP. Hence, administrator can remotely access all PDUs in the daisy chain group by one single IP via the IP Dongle.



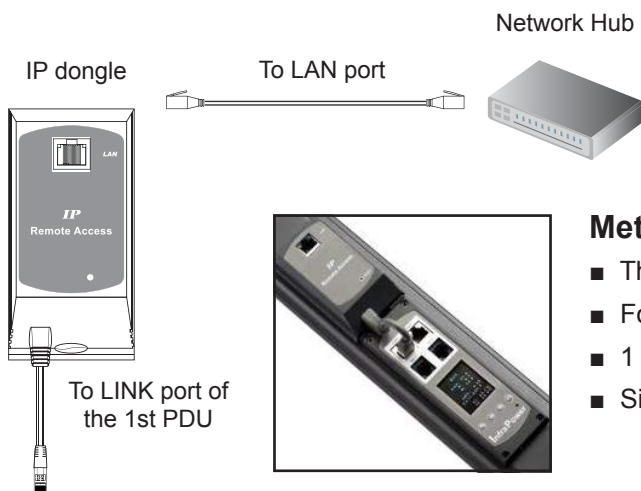
**Part no.
IPD-02-S**

IP Dongle for vertical PDU & 2U rackmount PDU

- SNMP capability v2 / v3

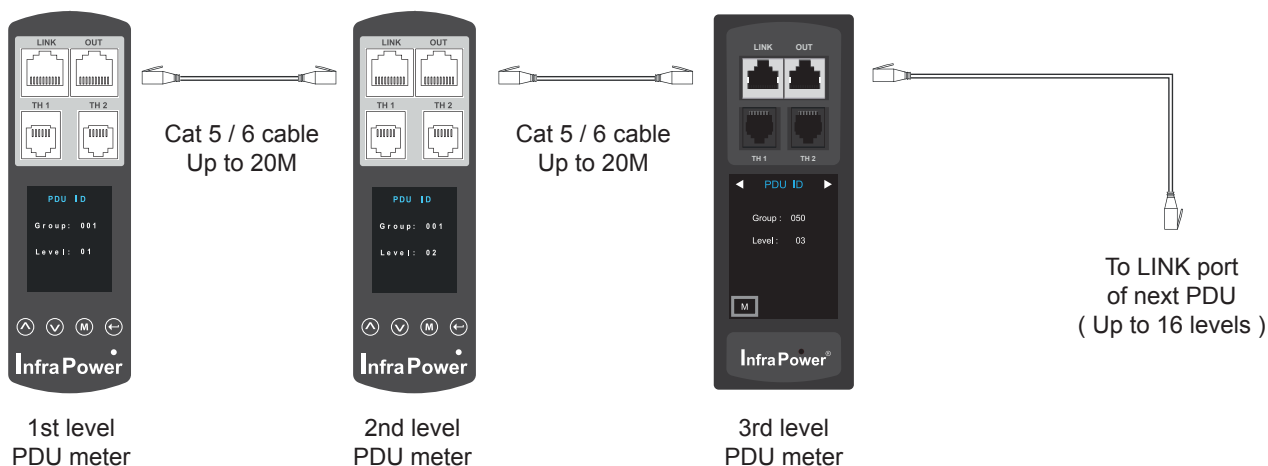
Vertical IP dongle installation steps :

- slide the IP dongle on the plate above the meter
- plug the RJ-45 connector of IP dongle into the LINK port of the 1st level PDU meter
- use the CAT. 5 / 6 cable to connect IP dongle to network device



Meter (PDU) Cascade

- The PDU can be cascaded up to 16 levels
- For IP PDU access simply connect 1 x IP Dongle - IPD-02-S
- 1 x IP Dongle allows access to 16 levels
- Single & 3 Phase PDU can be inter-cascaded in the single daisy chain



< 1.2 > IP Dongle Installation & Meter (PDU) Cascade



IP Dongle for 1U rackmount PDU

- SNMP capability v2 / v3

Installation steps :

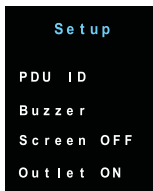
- fix the IP Dongle on the rear side of rackmount PDU with 4 screws
- plug its RJ-45 connector into the LINK port of the 1st level PDU meter
- connect IP Dongle to network device via CAT. 5 / 6 cable



< 1.3 > Meter (PDU) Level Setting

(I) For 1.8" LCD Meter (No touchscreen function)

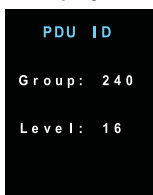
Display 9



Step 1 - Press the \wedge & \vee button to display no.9 and press \textcircled{M} to confirm

Step 2 - Press the \wedge & \vee button to PDU ID and press \textcircled{M} to confirm

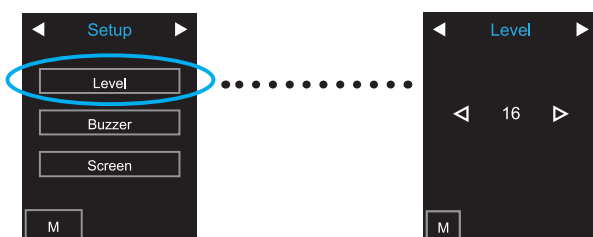
Display 9.1



Step 3 - In display 9.1, Press the \wedge & \vee button to select PDU level no. & press \textcircled{M} to confirm

Step 4 - Press \leftarrow to exit

(II) For 2.8" LCD Meter (With touchscreen function)

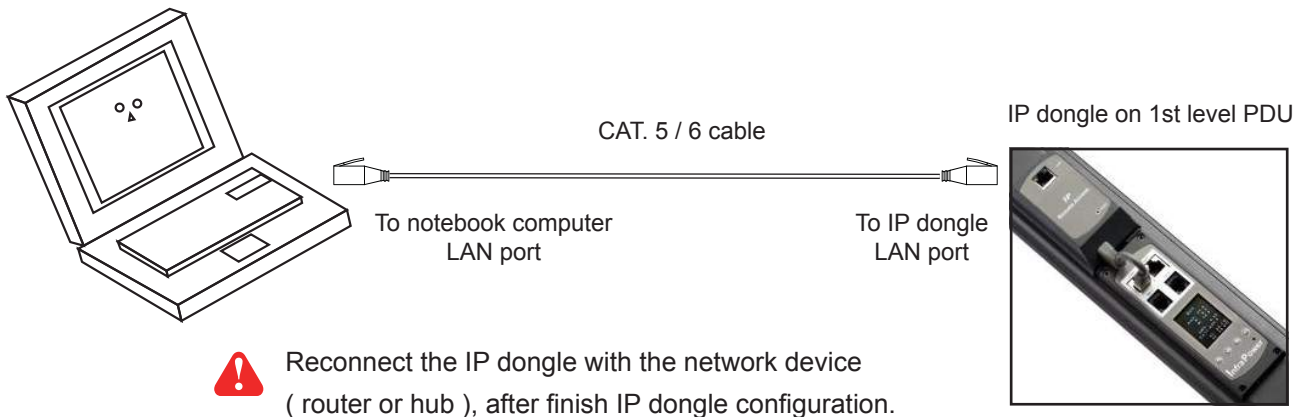


< 1.4 > IP Dongle Configuration

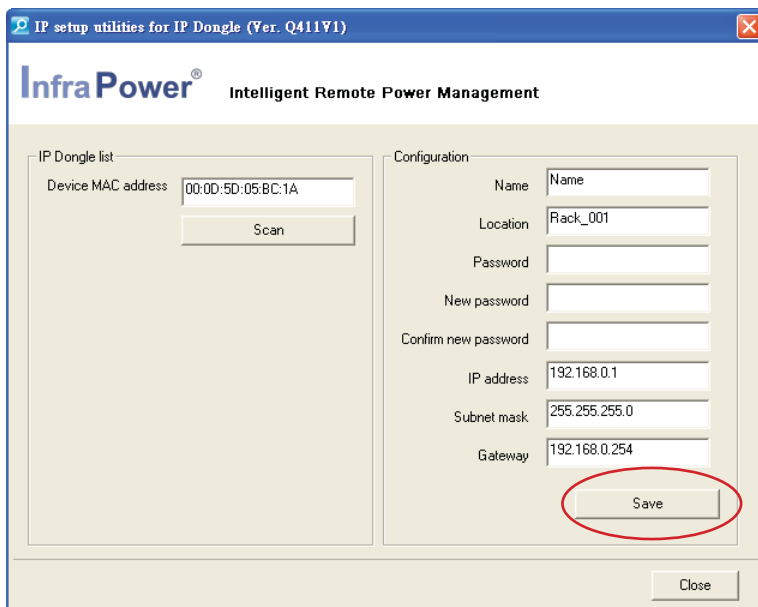
 The following steps show the static IP setting only. For DHCP setting, please refer to < 1.7 > DHCP Setting

After the completion of IP dongle connection, please take the following steps to configure the IP dongle :

- Step 1.** Prepare a notebook computer to download the IP setup utilities from the link :
<https://www.rackmountmart.com/downloads.html>
- Step 2.** Double Click the IPDongleSetup.msi and follow the instruction to complete the installation
- Step 3.** Go to each first level PDU with the notebook computer & a piece of CAT. 5 / 6 cable to configure the IP dongle by IP setup utilities as below. Please take the procedure for all IP dongles **ONE BY ONE**



Ensure the PDU in power ON status



IP setup utilities for IP Dongle (Ver. Q411Y1)

InfraPower® Intelligent Remote Power Management

IP Dongle list

Device MAC address: 00:0D:5D:05:BC:1A

Scan

Configuration

Name: Name

Location: Rack_001

Password:

New password:

Confirm new password:

IP address: 192.168.0.1

Subnet mask: 255.255.255.0

Gateway: 192.168.0.254

Save

Close


- Step 4.** Click “ Scan ” to search the connected IP dongle
- Step 5.** Enter device name in “ Name ” (min. 4 char. / max. 16 char.). Default is “ Name ”
- Step 6.** Enter device location in “ Location ” (min. 4 char. / max. 16 char.). Default is “ Rack_001 ”
- 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 > IP Dongle GUI

Each IP dongle (IPD-02-S) provides a **FREE** built-in GUI , which allows user, via a web browser, to see PDU's data and remotely manage the PDU over a TCP / IP Ethernet network.

 Each web browser window supports only one IP dongle (IPD-02-S). If user installs more IP dongles, multi windows will be required

 IP Dongle GUI is a management software with very limited features. User can use more advanced software, **InfraPower Manager IPM-04**

Device

Master IP Fan Unit

Login name

Password

Login

Cancel

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

Step 2. Enter the configured IP dongle address into the I.E. address bar (Please refer to < 1.4 > IP dongle configuration)

Step 3. Enter “ **Login name** ” , “ **Password** ” & Click “ **Login** ” (Please refer to < 1.4 > IP dongle configuration)

In < **Status** > ,

- Click “ **Search** ” to search all new installed PDUs (If search fails, please refer to < 1.6 > for IP dongle firmware upgrade)
- View all installed PDUs' status
- View latest loading on each PDU's circuits
- View aggregate current & energy consumption on each PDU
- View status & latest reading of Temp. & Humid sensors connected to each PDU
- View status of Door / Smoke sensors connected to each PDU
- Click “ **Time Sync** ” update all connected PDU's real time clock from the computer logged in the IP Dongle

Status

IP dongle name: default_ipd_name

IP address: 192.168.1.46

Level	Name	Location		Amp						kWh	kVA	Amp						kWh	kVA	Total			Sensor 1		Sensor 2		Leakage							
				Max.	Load	Alarm	R. alert	L. alert				Max.	Load	Alarm	R. alert	L. alert				Amp	kWh	kVA	Type	Status	Type	Status								
01	default_pdu_name	default_pdu_loc.	A	16.0	/	0.0	/	13.0	/	0.0	/	0.0	0.08	0.00	B	16.0	/	0.0	/	13.0	/	0.0	/	0.0	0.20	0.00	0.0	0.28	0.00	Smoke	Alarm	Smoke	Normal	-
02	default_pdu_name	default_pdu_loc.	A	16.0	/	0.0	/	6.0	/	3.0	/	0.0	0.49	0.00	-	-	-	-	-	-	-	-	-	-	-	0.0	0.49	0.00	Door	Open	-	-	-	
03	default_pdu_name	default_pdu_loc.	A	16.0	/	0.0	/	6.0	/	3.0	/	0.0	0.27	0.00	B	16.0	/	0.0	/	6.1	/	3.1	/	0.0	0.00	0.00	0.0	0.27	0.00	Temp.	31.0 °C	-	-	-
04	default_pdu_name	default_pdu_loc.	B1	11.5	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	0.0	0.00	0.00	-	-	-	-	-	
			B2	11.5	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			B3	11.5	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05	default_pdu_name	default_pdu_loc.	L1 - B1	16.0	/	0.0	/	6.0	/	3.0	/	0.0	0.48	0.00	-	-	-	-	-	-	-	-	-	-	-	0.0	0.48	0.00	-	-	-	-	-	
			L2 - B2	16.0	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			L3 - B3	16.0	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
06	default_pdu_name	default_pdu_loc.	L1 - B1	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	L1 - B2	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	0.0	0.00	0.00	-	-	-	-	-
			L2 - B3	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	L2 - B4	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	0.0	0.00	0.00	-	-	-	-	-
			L3 - B5	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	L3 - B6	16.0	/	0.0	/	12.8	/	0.0	/	0.0	0.00	0.00	0.0	0.00	0.00	-	-	-	-	-
07	default_pdu_name	default_pdu_loc.	Bank1	1.6	/	0.0	/	1.3	/	0.0	/	0.0	1.08	0.00	Bank3	1.6	/	0.0	/	1.3	/	0.0	/	0.0	1.08	0.00	0.0	2.17	0.00	-	-	-	-	-
			Bank2	1.6	/	0.0	/	1.3	/	0.0	/	0.0	0.00	0.00	Bank4	1.6	/	0.0	/	1.3	/	0.0	/	0.0	0.00	0.00	0.0	0.00	0.00	-	-	-	-	-
08	default_pdu_name	default_pdu_loc.	A	32.0	/	0.1	/	6.0	/	3.0	/	0.0	3.03	1.71	-	-	-	-	-	-	-	-	-	-	-	8.1	3.03	1.71	-	-	-	-	-	
09	default_pdu_name	default_pdu_loc.	B1	30.0	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	0.0	0.00	0.00	-	-	-	-	-	
			B2	30.0	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			B3	30.0	/	0.0	/	6.0	/	3.0	/	0.0	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

☒ Auto data refresh: Unstick during data input

Search

 Search new installed devices

Time Sync

 Synchronize all connected devices' time with computer

< 1.5 > IP Dongle GUI

In < **Details** > ,

- Change “ **Name** ” and “ **Location** ” of PDU & Click “ **Apply** ”
- Change “ **Alarm amp.** ” & “ **Low alert amp.** ” of PDU's circuits & Click “ **Apply** ”
- Click “ **Reset** ” to reset peak amp. or kWh of PDU's circuits
- Click “ **ON / OFF** ” to switch ON / OFF outlet (Switched PDU only)
- View On / Off status of each PDU's outlet
- View aggregated current on the PDU
- View latest loading & energy consumption of each PDU's outlet (Outlet Measurement PDU only)
- Click “ **Time Sync** ” update PDU's real time clock from the computer logged in the IP Dongle

Dual Feed PDU Details

Level : 01 DV32C13/8C19-32A-WSi

Status : Connected

Name : DSPWSI40-32A

Location : Server_Rack_001R

I kWh : 0.00 Power factor : 0.00 Frequency : 50.0

Load amp : 0.0 kVA : 0.00

I - A

Voltage :	199.7	Alarm amp :	12.8
Max. amp :	16.0	Rising alert amp :	0.0
Load amp :	0.0	Low alert amp :	0.0
Peak amp :	0.0	2015/01/01 00:11:48	Reset
kWh :	0.00	2015/01/01 00:00:00	Reset

I - B

Voltage :	199.7	Alarm amp :	12.8
Max. amp :	16.0	Rising alert amp :	0.0
Load amp :	0.0	Low alert amp :	0.0
Peak amp :	0.0	2015/01/01 00:00:00	Reset
kWh :	0.00	2015/01/01 00:00:00	Reset

Outlet	Name	Amp	kWh	kVA	Status	Switch
01	outlet_name_01	0.0	0.00	0.0	ON	OFF
03	outlet_name_03	0.0	0.00	0.0	ON	OFF
05	outlet_name_05	0.0	0.00	0.0	ON	OFF
07	outlet_name_07	0.0	0.00	0.0	ON	OFF
09	outlet_name_09	0.0	0.00	0.0	ON	OFF
11	outlet_name_11	0.0	0.00	0.0	ON	OFF
13	outlet_name_13	0.0	0.00	0.0	ON	OFF
15	outlet_name_15	0.0	0.00	0.0	ON	OFF
C01	outlet_name_17	0.0	0.00	0.0	ON	OFF
C03	outlet_name_19	0.0	0.00	0.0	ON	OFF

Click outlet icon for setting

Outlet	Name	Amp	kWh	kVA	Status	Switch
02	outlet_name_02	0.0	0.00	0.0	ON	OFF
04	outlet_name_04	0.0	0.00	0.0	ON	OFF
06	outlet_name_06	0.0	0.00	0.0	ON	OFF
08	outlet_name_08	0.0	0.00	0.0	ON	OFF
10	outlet_name_10	0.0	0.00	0.0	ON	OFF
12	outlet_name_12	0.0	0.00	0.0	ON	OFF
14	outlet_name_14	0.0	0.00	0.0	ON	OFF
16	outlet_name_16	0.0	0.00	0.0	ON	OFF
C02	outlet_name_18	0.0	0.00	0.0	ON	OFF
C04	outlet_name_20	0.0	0.00	0.0	ON	OFF

Click outlet icon for setting

II kWh : 0.00 Power factor : 0.00 Frequency : 50.0

Load amp : 0.0 kVA : 0.00

II - A

Voltage :	214.5	Alarm amp :	12.8
Max. amp :	16.0	Rising alert amp :	0.0
Load amp :	0.0	Low alert amp :	0.0
Peak amp :	0.0	2015/01/01 00:13:23	Reset
kWh :	0.00	2015/01/01 00:00:00	Reset

II - B

Voltage :	214.5	Alarm amp :	12.8
Max. amp :	16.0	Rising alert amp :	0.0
Load amp :	0.0	Low alert amp :	0.0
Peak amp :	0.0	2015/01/01 00:00:00	Reset
kWh :	0.00	2015/01/01 00:00:00	Reset

Outlet	Name	Amp	kWh	kVA	Status	Switch
01	outlet_name_21	0.0	0.00	0.0	ON	OFF
03	outlet_name_23	0.0	0.00	0.0	ON	OFF
05	outlet_name_25	0.0	0.00	0.0	ON	OFF
07	outlet_name_27	0.0	0.00	0.0	ON	OFF
09	outlet_name_29	0.0	0.00	0.0	ON	OFF
11	outlet_name_31	0.0	0.00	0.0	ON	OFF
13	outlet_name_33	0.0	0.00	0.0	ON	OFF
15	outlet_name_35	0.0	0.00	0.0	ON	OFF
C01	outlet_name_37	0.0	0.00	0.0	ON	OFF
C03	outlet_name_39	0.0	0.00	0.0	ON	OFF

Click outlet icon for setting

Outlet	Name	Amp	kWh	kVA	Status	Switch
02	outlet_name_22	0.0	0.00	0.0	ON	OFF
04	outlet_name_24	0.0	0.00	0.0	ON	OFF
06	outlet_name_26	0.0	0.00	0.0	ON	OFF
08	outlet_name_28	0.0	0.00	0.0	ON	OFF
10	outlet_name_30	0.0	0.00	0.0	ON	OFF
12	outlet_name_32	0.0	0.00	0.0	ON	OFF
14	outlet_name_34	0.0	0.00	0.0	ON	OFF
16	outlet_name_36	0.0	0.00	0.0	ON	OFF
C02	outlet_name_38	0.0	0.00	0.0	ON	OFF
C04	outlet_name_40	0.0	0.00	0.0	ON	OFF

Click outlet icon for setting

☒ Auto data refresh : ☐ Untick during data input

Apply

Save new data

Cancel

Cancel new data input

Time Sync

Synchronize this device time with computer

* Press F11 to enlarge or diminish the screen

< 1.5 > IP Dongle GUI

In < **Outlet setting** > ,

- Change PDU's outlet name
- Change “ **Power up sequence delay** ” of PDU's outlet (Switched PDU only)
- Change “ **Alarm amp.** ”, “ **Rising Alert amp.** ” & “ **Low alert amp.** ” of PDU's outlet (Outlet Measurement PDU only)

⚠ Click “ **Apply** ” to finish the above settings

- Click “ **Reset** ” to reset peak amp. or kWh of PDU's outlet (Outlet Measurement PDU only)

Outlet Setting

Level : 01 DV32C13/8C1S-32A-WS
Status : Connected
Name : DSPWSI40-32A
Location : Server_Rack_001R

I - A

Outlet : 01 (V)
Name : outlet_name_01
Status : ON
Power up sequence delay : 1 (Min. 1s , Max. 10s)

Load amp : 0.0
Alarm amp : 10.0
R. alert amp : 0.0
L. alert amp : 0.0
Peak amp : 4.2 2015/01/01 00:01:37 **Reset**
kWh : 0.00 2015/01/01 00:00:00 **Reset**

Apply Save new data **Exit** Return to Details
Cancel Cancel new data input

< 1.5 > IP Dongle GUI

In < **Sensor Status** > ,

- View status, location, latest reading & alarm setting of Temp. & Humid sensors.
- View status & location of Door sensor & Smoke sensor



The GUI will not show the status / reading if sensors are NOT installed & activated.

Sensor Status

IP Dongle name : default_ipd_name
IP address : 192.168.1.46

Level	Name	Setting	Sensor 1				Sensor 2					
			Location	Type	Status	Alarm	R.alert	Location	Type	Status	Alarm	R.alert
01	default_pdu_name		sensor_location	Temp. (°C)	26.2	35.0	0.0	sensor_location	Smoke	Normal	-	-
02	default_pdu_name		sensor_location	Door	Open	-	-	-	-	-	-	-
03	default_pdu_name		-	-	-	-	-	-	-	-	-	-
04	default_pdu_name		-	-	-	-	-	-	-	-	-	-
05	default_pdu_name		-	-	-	-	-	-	-	-	-	-
06	default_pdu_name		-	-	-	-	-	-	-	-	-	-
07	default_pdu_name		-	-	-	-	-	-	-	-	-	-
08	default_pdu_name		-	-	-	-	-	-	-	-	-	-
09	default_pdu_name		-	-	-	-	-	-	-	-	-	-
10	default_pdu_name		-	-	-	-	-	-	-	-	-	-
11	default_pdu_name		-	-	-	-	-	-	-	-	-	-
12	default_pdu_name		-	-	-	-	-	-	-	-	-	-
13	default_pdu_name		-	-	-	-	-	-	-	-	-	-
14	default_pdu_name		-	-	-	-	-	-	-	-	-	-

☒ Auto data refresh : Untick during data input

In < **Sensor Setting** > ,

- Default Sensor setting :

Deactivate
- “ **Activate** ” sensors ONLY when they are connected
- Change “ **Location** ” , “ **Rising alert Setting** ” & “ **Alarm Setting** ” of Temp. & Humid sensors
- Change “ **Location** ” of Door sensor & Smoke sensor
- Click “ **Apply** ” to finish the above settings



If no any sensor connected, NEVER activate.

Sensor Setting

Level : 01 H4C13/4C19-32A-WS
Status : Connected
Name : default_pdu_name
Location : default_pdu_loc

Sensor 1

☒ Activate ☐ Deactivate
Type : Temp. sensor
Location : sensor_location

Alarm

Rising alert

Setting

Reading

Temp.(°C) : 35.0 0.0 26.2

Sensor 2

☒ Activate ☐ Deactivate
Type : Smoke sensor
Location : sensor_location
State : Normal

DO NOT activate T or TH sensor if no sensor installed.
When install T or TH sensor, please tick activate.
Otherwise, no readings display.

Apply

Cancel

Save new data input
Discard new data input

Exit

Return to previous page

< 1.5 > IP Dongle GUI

In < **System** > ,

- Change IP dongle name & location
- Change temperature unit displayed in UI
- Change IP dongle's IP address, subnet mask & gateway. (For static IP setting only)
- Select “ **ON** ” in “ **DHCP** ” to enable DHCP setting.
- Tick “ **Force HTTPS** ” to provide data transmission security.
- Click “ **Apply** ” to finish the above settings

IP Dongle

IP Dongle name :

Location :

Temperature unit : ☒ C ☐ F

IP settings

DHCP : OFF ▼

Address :

Subnet mask :

Gateway :

Security ☐ Force HTTPS

Operation Mode : ☒ IntraPower Manager IPM-04 Only ☐ WEB GUI + SNMP Only

Remarks : If you change the operation mode, the IP Dongle will reboot to make the change effective.

In < **Login** > ,

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

Web UI

Login name

Password

Confirm password

< 1.6 > SNMP Setup

The IP dongle can manage the connected single & three phase intelligent PDUs in a single daisy-chain up to 16 levels via SNMP v1/v2 or v3 (Simple Network Management Protocol)

(I). Accessing MIB Files

Step 1. Click the following link to go to the mangement software download page :
<https://www.rackmountmart.com/downloads.html>

Step 2. Select the appropriate MIB file of the PDU series

(II). Enabling SNMP Support

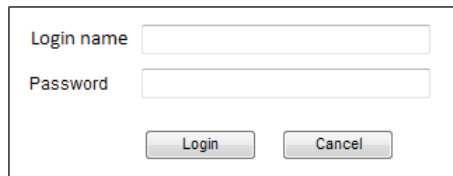
i. The following steps summarize how to enable the IP Dongle for SNMP v1 / v2 support.

Step 1. Connect the IP Dongle to a computer. (Please refer to < 1.4 > IP dongle configuration)

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

Step 3. Enter the configured IP Dongle address into the I.E. address bar.
Default IP address is “ **192.168.0.1** “

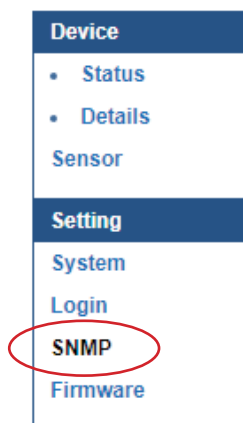
Step 4. Enter “ **Login name** “ & “ **Password** “. Default login name & password are “ **00000000** “



A screenshot of a web-based login form. It contains two input fields: 'Login name' and 'Password'. Below the fields are two buttons: 'Login' and 'Cancel'.

< 1.6 > SNMP Setup

Step 5. Select the **SNMP** from the left navigation pane



Step 6. The **SNMP** Settings window appears as below:

A screenshot of the 'SNMP' settings window. At the top, there's a title bar 'SNMP'. Below it, the 'SNMP agent' section has radio buttons for 'Enable' and 'Disable', with 'Disable' selected. Below this are input fields for 'SNMP version' (set to 'v1/v2'), 'SNMP port' (set to '161'), 'sysContact' (set to 'human.being<nobody@but.>'), 'sysLocation' (set to 'Earth'), and 'sysName' (set to 'A320D'). The 'SNMP configuration' section has input fields for 'Read community' (set to 'public') and 'Write community' (set to 'private'). Below this are three identical sections for 'Station 1', 'Station 2', and 'Station 3'. Each station section has radio buttons for 'Deactivate' and 'Activate', and input fields for 'Trap Station IP' (set to '192.168.0.254'), 'Trap port' (set to '162'), and 'Trap community' (set to 'private'). At the bottom, there are 'Apply' and 'Cancel' buttons.

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 A320D

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

< 1.6 > SNMP Setup

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

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

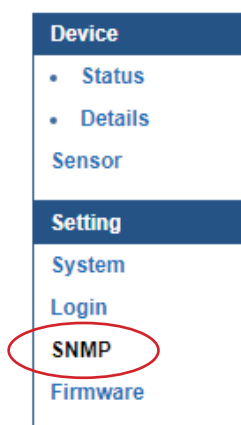
Step 2. Open Internet Explorer (I.E.) version 11.0

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

Default IP address is “ **192.168.0.1** “

Step 4. Enter “ **Login name** “ & “ **Password** “. Default login name & password are “ **00000000** “

Step 5. Select SNMP from the left navigation pane



Step 6. The **SNMP** Settings window appears as below:

A screenshot of the 'SNMP' settings window. At the top, it says 'SNMP'. Below that, 'SNMP agent' is set to 'Enable'. 'SNMP version' is 'v1/v2'. 'SNMP port' is '161'. 'sysContact' is 'human.being<nobody@but.!', 'sysLocation' is 'Earth', and 'sysName' is 'A320D'. Under 'SNMP configuration', 'Read community' is 'public' and 'Write community' is 'private'. At the bottom, there are three sections for 'Station 1', 'Station 2', and 'Station 3'. Each station has 'Deactivate' selected, 'Trap Station IP' of '192.168.0.254', 'Trap port' of '162', and 'Trap community' of 'private'. 'Apply' and 'Cancel' buttons are at the bottom left.

< 1.6 > 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 :

SNMP

SNMP agent : ☒ Enable ☐ Disable

SNMP version : **v3**

SNMP port : 161

sysContact : human.being<nobody@but.

sysLocation : Earth

sysName : A320D

SNMP configuration

User 1 : ☒ Deactivate ☐ Activate

User role : read only

USM user : usm_user1

Auth algorithm : None

Auth password : *****

Privacy algorithm : None

Privacy password : *****

SNMP trap : Disabled

Trap Station IP : 192.168.0.254

Trap port : 162

User 2 : ☒ Deactivate ☐ Activate

User role : read only

USM user : usm_user2

Auth algorithm : None

Auth password : *****

Privacy algorithm : None

Privacy password : *****

SNMP trap : Disabled

Trap Station IP : 192.168.0.254

Trap port : 162

User 3 : ☒ Deactivate ☐ Activate

User role : read only

USM user : usm_user3

Auth algorithm : None

Auth password : *****

Privacy algorithm : None

Privacy password : *****

SNMP trap : Disabled

Trap Station IP : 192.168.0.254

Trap port : 162

Apply Cancel

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 A320D

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** ”

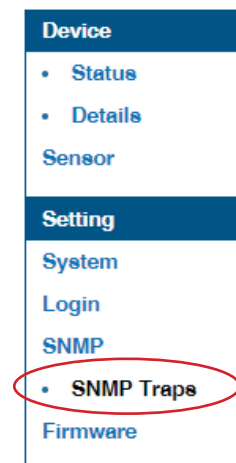
Step 22. Repeat step 12 to 20 for User 2 & 3

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

< 1.6 > 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 PDU SNMP trap.

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

Device

[Status](#)
[Details](#)
[Sensor](#)

Setting

[System](#)
[Login](#)
[SNMP](#)
[SNMP Traps](#)
[Firmware](#)

SNMP Traps Setting

pduConnectionLost :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
pduConnectionRecovered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
circuitLoadEventTriggered :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
circuitLoadEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
circuitBreakerTripped :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
circuitBreakerRecovered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
sensorConnectionLost :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
sensorConnectionRecovered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
tempSensorEventTriggered :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
tempSensorEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
humiSensorEventTriggered :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
humiSensorEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
rcmSensorConnectionLost :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
rcmSensorConnectionRecovered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
rcmSensorEventTriggered :	<input type="radio"/> Disable	<input type="radio"/> Once	<input checked="" type="radio"/> Cyclic
rcmSensorEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
smokeSensorEventTriggered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Once	<input type="radio"/> Cyclic
smokeSensorEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	
doorSensorEventTriggered :	<input type="radio"/> Disable	<input checked="" type="radio"/> Once	<input type="radio"/> Cyclic
doorSensorEventCleared :	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable	

< 1.7 > IP Dongle Firmware Upgrade

< Firmware Upgrade >

For function enhancement of IP dongle WEB UI or fail to search the PDU, please take the following steps to remotely upgrade the IP Dongle firmware :

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

<https://www.rackmountmart.com/downloads.html>

Step 2. Select the appropriate IP Dongle firmware file of the PDU series


Step 3. Connect the IP Dongle to the computer. (Please refer to < 1.4 > IP dongle configuration)

Step 4. Open the Internet Explorer (I.E.) version 11.0

Step 5. Enter the configured IP Dongle address into the I.E. address bar.

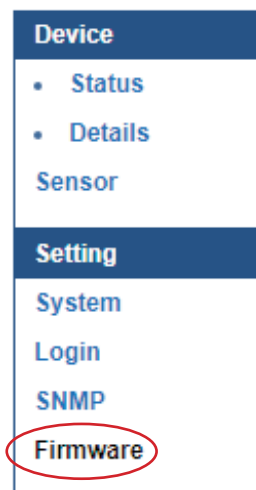
Default IP address is “ **192.168.0.1** “

Step 6. Enter “ **Login name** “ & “ **Password** “. Default login name & password are “ **00000000** “



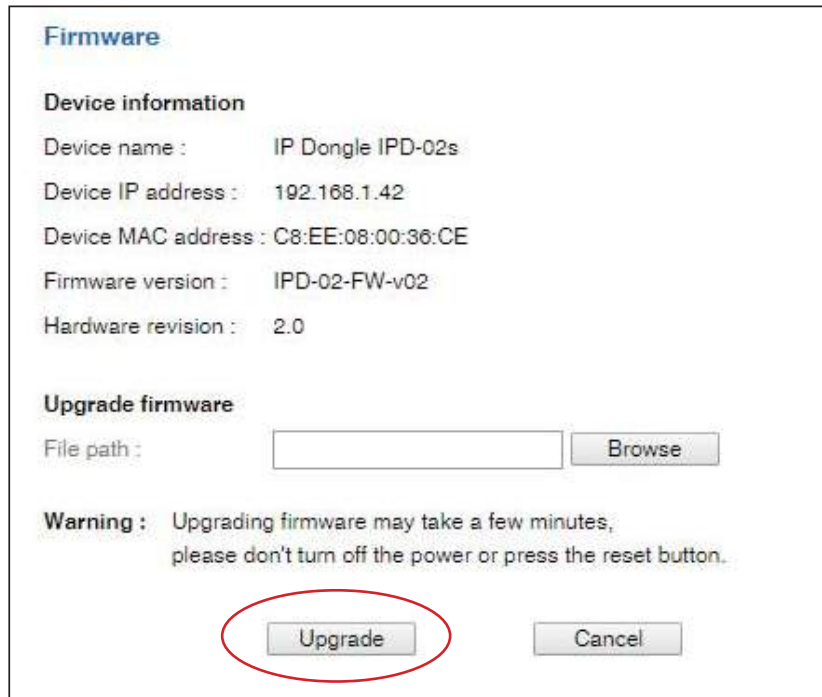
A login form with two input fields: "Login name" and "Password". Below the fields are two buttons: "Login" and "Cancel".

Step 7. Select the Firmware from the left navigation pane



< 1.7 > IP Dongle Firmware Upgrade

Step 8. The firmware upgrade window appears as below :



Firmware

Device information

Device name : IP Dongle IPD-02s

Device IP address : 192.168.1.42

Device MAC address : C8:EE:08:00:36:CE

Firmware version : IPD-02-FW-v02

Hardware revision : 2.0

Upgrade firmware

File path :

Warning : Upgrading firmware may take a few minutes,
please don't turn off the power or press the reset button.

Step 9. Click “ **Browse** ” and select the firmware file (xxx.img) from the specific path in the pop up window and Click “ **Open** ”

Step 10. Click “ **Upgrade** ” to start the upgrade process. It takes a few minutes to complete.

Step 11. Once complete, UI will return to the login page.

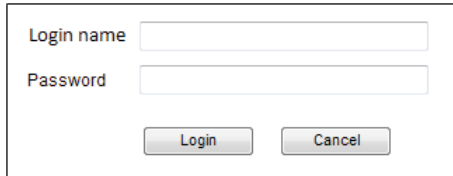
< 1.8 > DHCP Setting

Step 1. Connect the IP dongle to the computer (Please refer to < 1.4 > IP dongle configuration)

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

Step 3. Enter the default IP address of the IP dongle into the I.E. address bar.
Default IP address is “ **192.168.0.1** ”

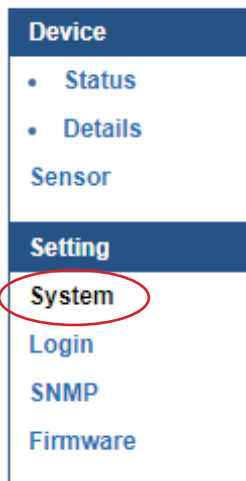
Step 4. Enter the “ **Login name** ” & “ **Password** ” . Default login name & password are “ **00000000** ”



Login name

Password

Step 5. Select “ **System** ” from the left navigation pane



Device

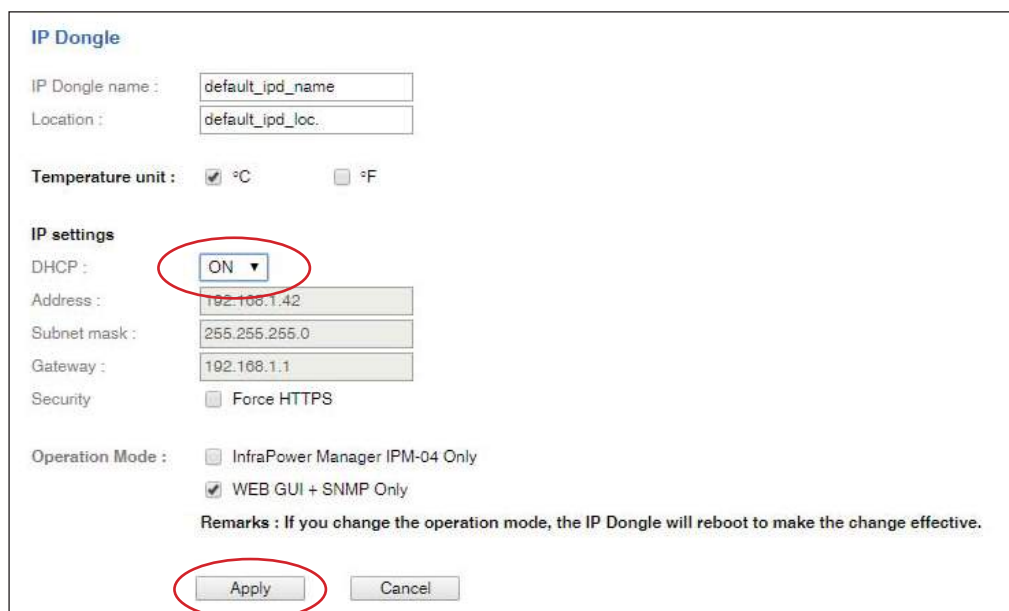
- Status
- Details

Sensor

Setting

- System**
- Login
- SNMP
- Firmware

Step 6. Select “ **ON** ” from “ **DHCP** ” & click “ **Apply** ” to save the settings



IP Dongle

IP Dongle name :

Location :

Temperature unit : ☒ °C ☐ °F

IP settings

DHCP : **ON** ▼

Address :

Subnet mask :

Gateway :

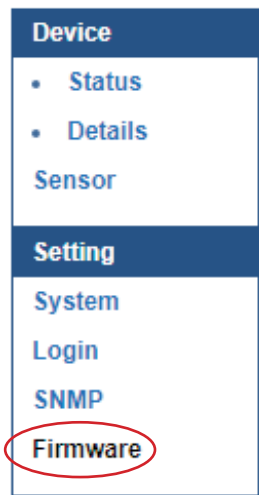
Security ☐ Force HTTPS

Operation Mode : ☐ InfraPower Manager IPM-04 Only ☒ WEB GUI + SNMP Only

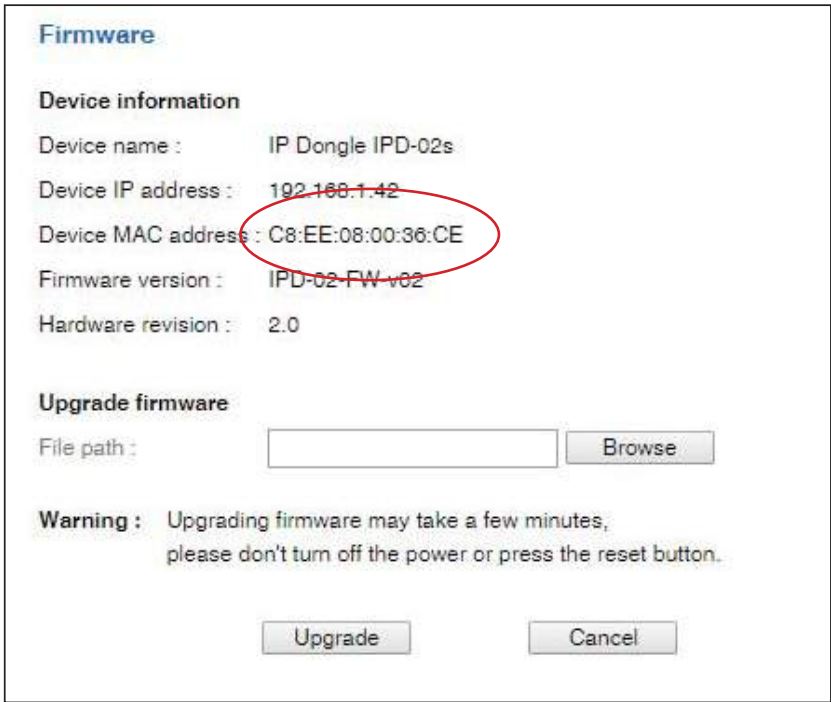
Remarks : If you change the operation mode, the IP Dongle will reboot to make the change effective.

< 1.8 > DHCP Setting

Step 7. Select “ Firmware ” from the left navigation pane



Step 8. Record the “ Device MAC address ”



Step 9. Assign an IP address to the IP Dongle from your DHCP server.

..... Complete

< 1.9 > Command Line Interface (CLI) Access

Command Line Interface (CLI) allows you access the IP dongle via Telnet or Secure Shell (SSH) to configure the system settings and login settings.

By default, CLI access via Telnet and SSH are both enabled whereas Telnet can be disabled.


Telnet provides the basic security of authentication by user name and password, but not the high-security benefits of encryption.

If you want high security access, you can use SSH for access to the command line interface. SSH encrypts user name, password and transmitted data.

If you use SSH to access the command line interface, DISABLE Telnet.

CLI and IP dongle 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 to be displayed in the WEBUI
 - Change system RTC date time : set the system time of the IP Dongle
 - Change network settings : change the IP settings of the IP Dongle
 - Change features & services
 - a. Enable / disable management software support
 - b. Enable / disable SNMP agent (ONLY shown when management software support is disabled)
 - c. Enable / disable WEBUI
 - d. Enable / disable UDP (When disabled, IP dongle CANNOT be found by IP setup utilities)
 - e. Enable / disable maintenance (service) account
-  If you are using WEBUI + SNMP operation mode, please go to the IP dongle WEBUI to search the connected PDU & configure the SNMP settings before you disable WEBUI via command line interface.
- ii. Login settings
 - Change login name
 - Change login password
 - Reset to default login name & password

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