

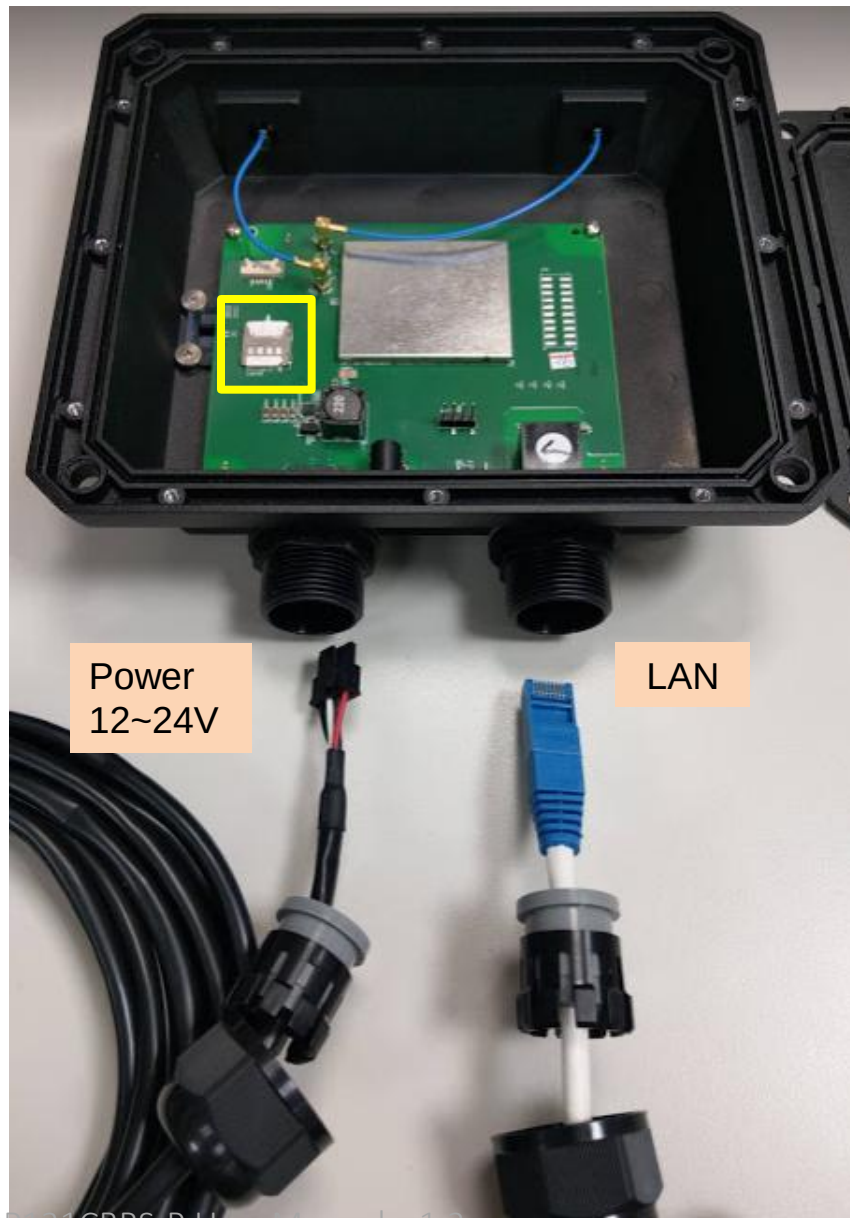


# Industrial LTE CPE User Manual

V1.3.6

July 2, 2020

# Before Use



## Steps:

1. Remove bottom cover
2. Insert Micro SIM card into card socket(yellow frame)

3. Connect power cable and LAN cable

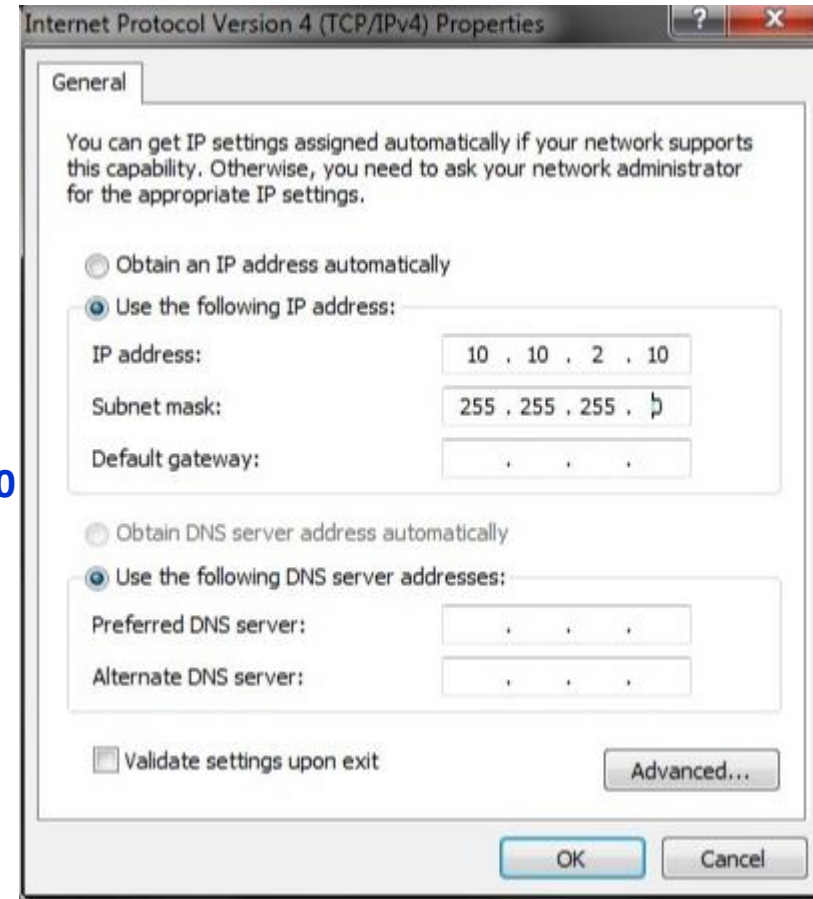
**\* Please wear anti-static gloves and always remove/insert micro SIM card when the device is power off.**

# Configure Laptop/PC Ethernet to Fixed IP

To connect to video bridge, please use fixed IP all the time no matter in configuration or assigned IP check period.

## Steps:

1. Configure Laptop IP to 10.10.2.10/255.255.255.0 (Don't use DHCP to get IP from CPE)
2. Click "OK"



# How to Login GUI

https://10.10.2.254/index\_router.htm X +

← → ↻ ⓘ https://10.10.2.254/index\_router.htm 1. Visit <https://10.10.2.254>

Sign in

https://10.10.2.254

Username  2. User ID/PW: admin/admin

Password

## Steps:

1. Visit <https://10.10.2.254>
2. User ID/PW: admin/admin
3. Click "Sing In"

# How to Get LTE information

CPE-Router x +

Not secure | [https://10.10.2.254/index\\_router.htm](https://10.10.2.254/index_router.htm) 1. Visit <https://10.10.2.254>

**SERCOMM** Embed IP Everywhere

Login Time: 4:51 P.M. Add your comment ... Download Log

2. Click "Status"

**Status** RRC/NAS Counter CellInfo Environment Throughput Key-Counter

**LTE**

|                |                 |                   |                 |
|----------------|-----------------|-------------------|-----------------|
| Status Cause:  | [Established]   | Connection Status | Connected       |
| APN(NAT)       |                 | IP Address:       | 192.168.1.51    |
| APN(Bridge)    |                 | IP Address:       |                 |
| APN(VLAN)      |                 | IP Address:       |                 |
| IMEI:          | 354021070040660 | IMSI:             | 001012345678901 |
| EARFCN(UL):    | 42590           | EARFCN(DL):       | 42590           |
| BW:            | 20MHz           | PLMNID:           | 00101           |
| PCI:           | 0               | RSSI:             | -45             |
| TAC:           | 1               | RSRP:             | -77             |
| SINR:          | 29              | CWMP Status:      | IDLE            |
| BandNeighbors: |                 | BandBlackList:    |                 |

**LTE information**

**LAN**

|               |               |              |                   |
|---------------|---------------|--------------|-------------------|
| IP Address:   | 10.10.2.254   | DHCP Server: | ON                |
| Network Mask: | 255.255.255.0 | MAC Address: | 00:0A:3B:12:34:61 |

**Module**

|              |                |               |          |
|--------------|----------------|---------------|----------|
| PKG Version: | 0.64.63.0R2360 | ARM1 Version: | 0.3.2.17 |
|--------------|----------------|---------------|----------|

**System**

|               |                     |                   |                 |
|---------------|---------------------|-------------------|-----------------|
| Device Name   | Sercomm             | Firmware Version: | RD1219@190315   |
| Current Time: | 2013-06-20 14:11:52 | Device ID         | vzgcxz1jwoqkzov |

**Sercomm FW version**

Refresh Screen Help

Steps:  
1. Visit <https://10.10.2.254>  
2. Click "Status" on the left menu

Copyright 2015. Sercomm Corporation

# How to configure APN Name-NAT

1. Visit <https://10.10.2.254>

2. Click "Setting"

3. Configure APN name

5. Click "Restart" to reboot device

4. Click "Save"

## Steps:

1. Visit <https://10.10.2.254>
2. Click "Setting" on the left menu
3. Configure APN Name if required
4. Click "Save"
5. Click "Restart" or unplug to reboot the device

# How to configure APN Name-Bridge

**SERCOM** Embed IP Everywhere

Login Time: 6:26 P.M.  Add your comment ... Download Log

**Navigation Menu:** Status, Settings, Administration, LOG, Log Out, Restart

**Tabs:** BASIC, ADVANCE, NETWORK, FIREWALL, SIM PIN

**APN Configuration:**

APN(NAT):  ☐ IPv4

APN(Bridge): Internet ☒ IPv4 **3. Configure APN name**

APN(VLAN=103):  ☐ IPv4

Roaming: ☐

MTU:

Search List:

Explain: A/B/C/.../ A: Type(2-earfcn; 3-Band; 4-earfcn range); B: count; C: EARFCN/Band value

Sample1: set earfcns 42590,44590 : 2/2/42590/44590/

Sample2: set band 48 : 3/1/48/

Sample3: set earfcn range at 42590-44590 : 4/1/42590/44590/

Remark: Band : Frequency range Earfcn range  
B42 : 3400-3600MHz 41590-43590  
B43 : 3600-3800MHz 43590-45590  
B48 : 3500-3700MHz 55200-57200

**5. Click "Restart" to reboot device**

**4. Click "Save"**

## Steps:

1. Visit <https://10.10.2.254>
2. Click "Setting" on the left menu
3. Tick the checkbox of Bridge and configure APN Name if required
4. Click "Save"
5. Click "Restart" or unplug to reboot the device
6. Configure laptop/PC ethernet to DHCP to get IP in bridge mode.
7. Configure laptop/PC ethernet to fixed IP when need to enter GUI in bridge mode

# How to Upgrade Firmware

The screenshot shows a web browser window with the address bar displaying [https://10.10.2.254/index\\_router.htm](https://10.10.2.254/index_router.htm). The page header features the SERCOM logo and the tagline "Embed IP Everywhere". A left sidebar menu contains links for Status, Settings, Administration (highlighted with a red box), LOG, Log Out, and Restart. The main content area has tabs for Upgrade, TR069, and Config File. Under the Upgrade tab, there is a section titled "Locate and Select the Upgrade File from your Hard Disk:" with a "Choose File" button and a text field showing "No file chosen". Below this are "Upload", "Cancel", and "Help" buttons. Red annotations with numbers 1 through 4 provide step-by-step instructions for the upgrade process.

1. Visit <https://10.10.2.254>

2. Click Administration

3. Click to choose firmware file

4. Click "Upload"

Steps:

1. Visit <https://10.10.2.254>
2. Click "Administration" on the left menu
3. Click "Choose File" to choose firmware file
4. Click "Upload"

# How to Reset to Default

The screenshot shows the SERCOM CPE-Router web interface. The browser address bar displays [https://10.10.2.254/index\\_router.htm](https://10.10.2.254/index_router.htm). The interface has a blue header with the SERCOM logo and the tagline "Embed IP Everywhere". Below the header, there is a login time display (6:26 P.M.) and buttons for "Add your comment ..." and "Download Log". The left sidebar contains a menu with items: Status, Settings, Administration, LOG, Log Out, and Restart. The "Administration" item is highlighted with a red box. The main content area has a top bar with buttons for "Upgrade", "TR069", and "Config File". The "Config File" button is highlighted with a red box. Below this, there are two sections: "Backup Config" with a "Backup" button, and "Default Config" with a "Factory Defaults" button. A "Help" button is located at the bottom of the main content area. Red text annotations provide step-by-step instructions: "1. Visit https://10.10.2.254" points to the address bar, "2. Click Administration" points to the Administration menu item, "3. Click 'Config File'" points to the Config File button, "4. Click 'Factory Defaults'" points to the Factory Defaults button, and "5. Click 'Restart' to reboot device" points to the Restart menu item.

1. Visit <https://10.10.2.254>

2. Click Administration

3. Click "Config File"

4. Click "Factory Defaults"

5. Click "Restart" to reboot device

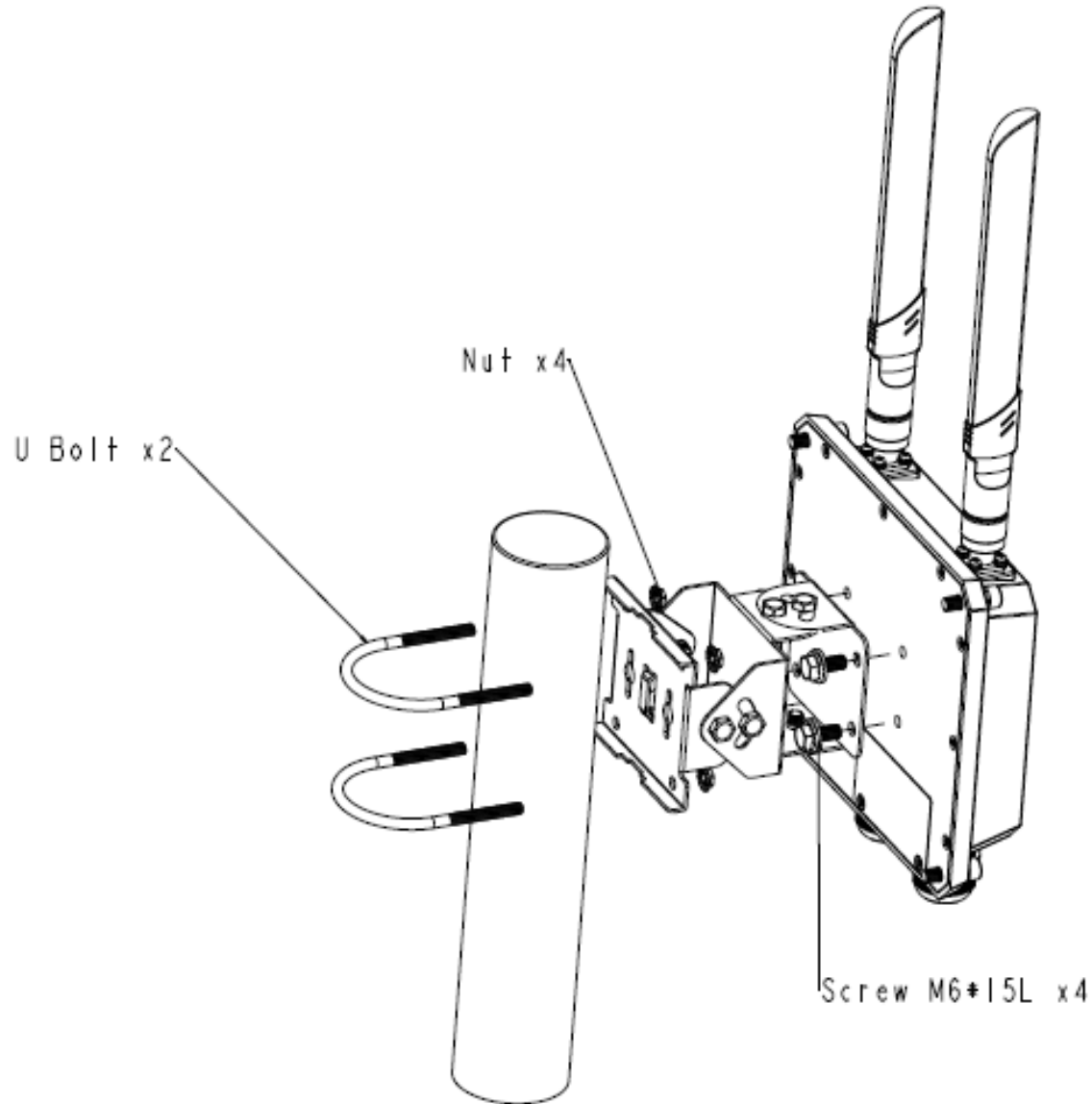
## Steps:

1. Visit <https://10.10.2.254>
2. Click "Administration" on the left menu
3. Click "Config File"
4. Click "Factory Defaults" to reset to default settings
5. Click "Restart " or unplug to reboot the device

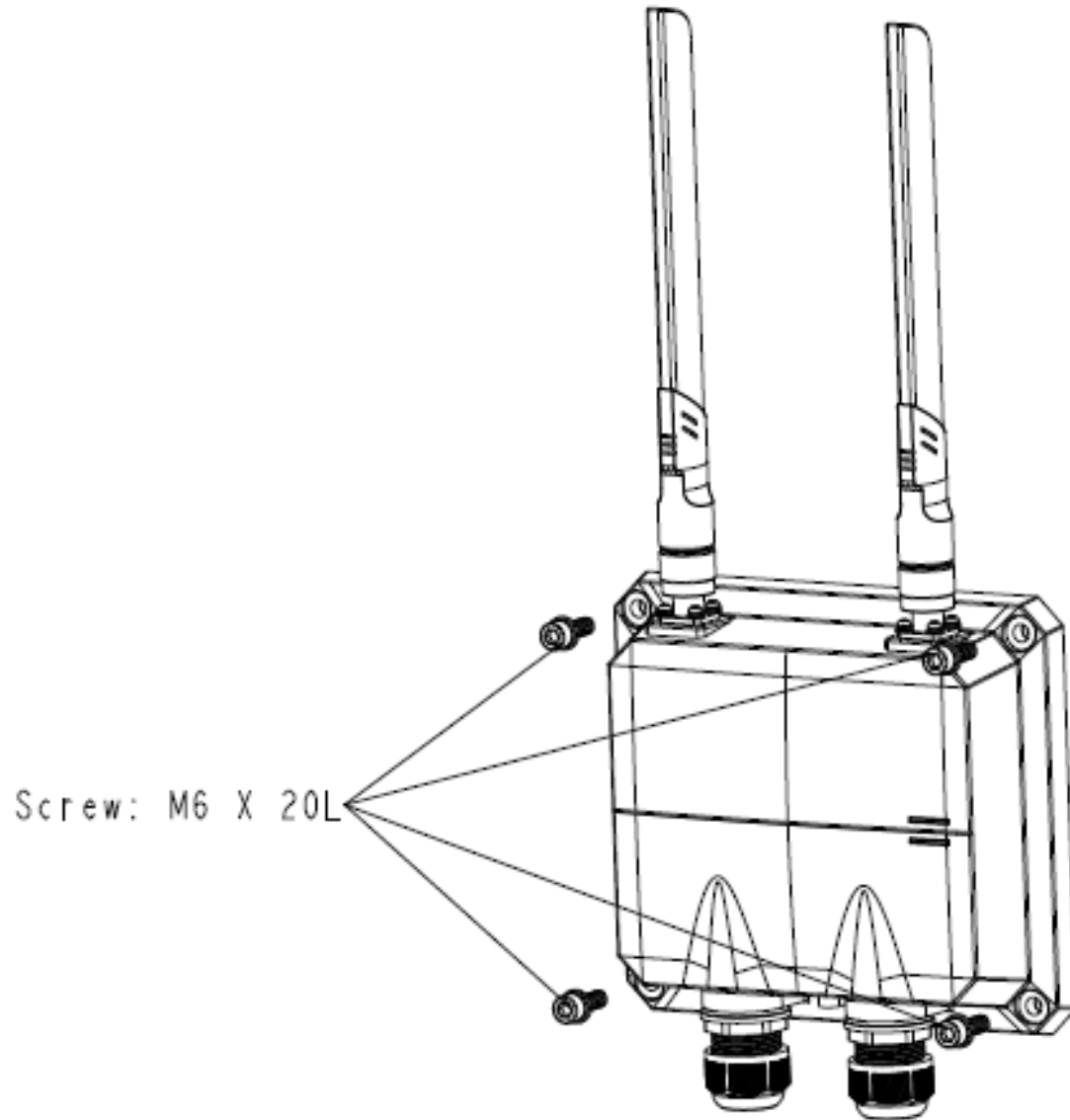
# How to Read LEDs

| STATUS                             | STATUS LED |       | LTE SIGNAL LED |       |        |
|------------------------------------|------------|-------|----------------|-------|--------|
|                                    | Green      | Red   | Blue           | Green | Orange |
| Power On                           | On         | Off   | Off            | Off   | Off    |
| Power Off                          | Off        | Off   | Off            | Off   | Off    |
| No SIM card                        | Off        | On    | Off            | Off   | Off    |
| FW Upgrading                       | Blink      | Off   | Off            | Off   | Off    |
| FW Upgrading Fail                  | On         | Blink | Off            | Off   | Off    |
| PLMN Search /<br>Network Attaching | On         | Off   | Off            | Blink | Off    |
| RSRP (> -87) dBm                   | On         | Off   | On             | Off   | Off    |
| RSRP ( -106 ~ -87) dBm             | On         | Off   | Off            | On    | Off    |
| RSRP (< -106) dBm                  | On         | Off   | Off            | Off   | On     |

# How to Mount the Device\_Pole Mount



# How to Mount the Device\_Wall Mount



# Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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. 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 of the following measures:

- Reorient 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.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.