



Wingle User Manual

V0.5

Oct. 25, 2019

SIM Installation – Micro SIM

Embed IP Everywhere

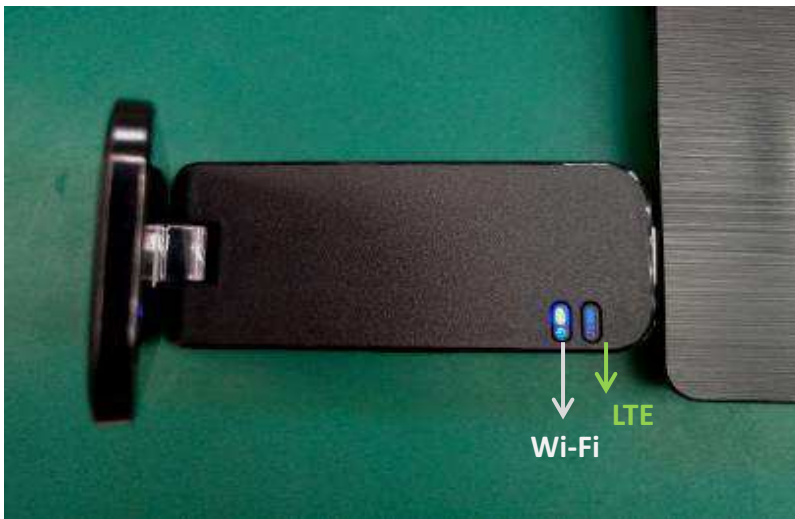
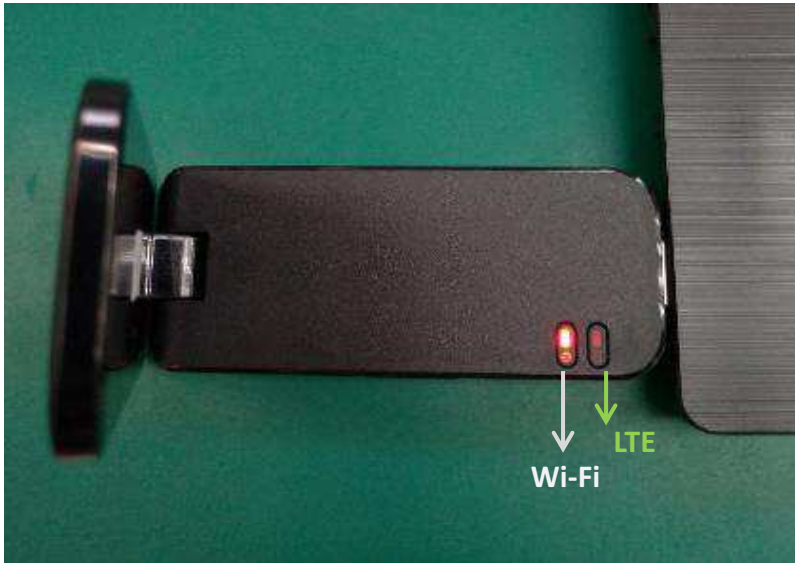


Lift up Antenna Board

Embed IP Everywhere



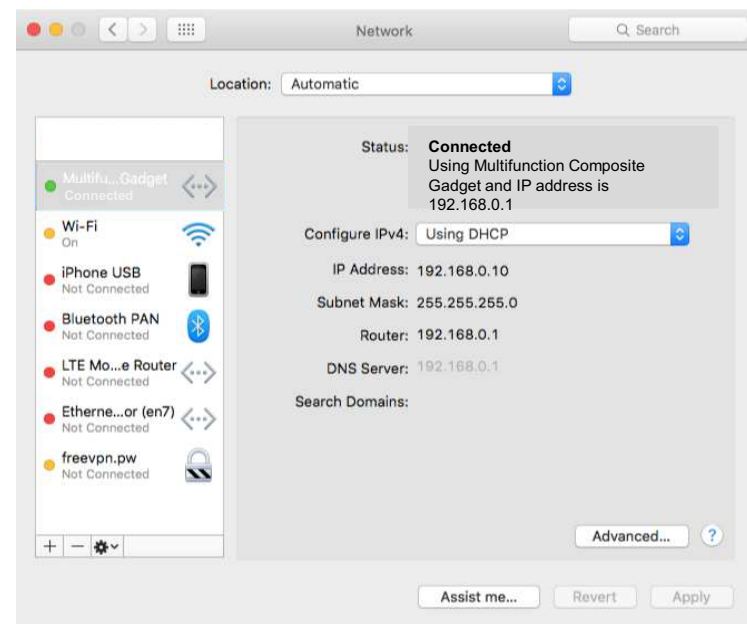
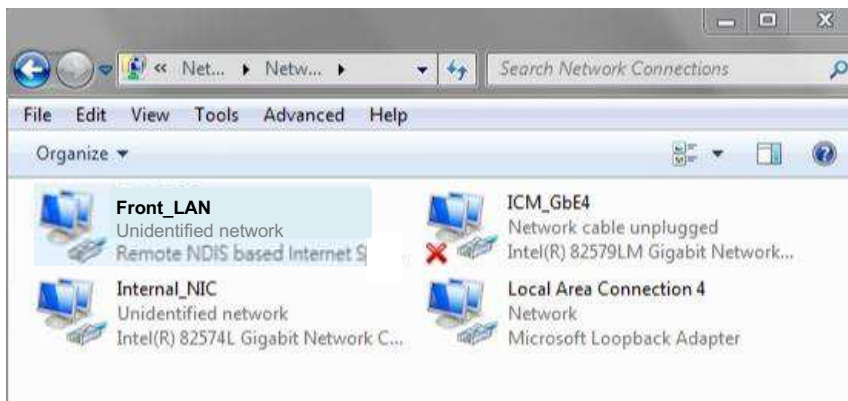
How to Know the Status of Wingle



- Wi-Fi LED will turn **Red** when no SIM card is inserted, or is not inserted correctly, or is not readable.
- Wi-Fi LED will turn **Blue** when SIM card is ready and LTE LED will start blinking in **Green** for PLMN searching and network attaching automatically.
- ◆ LTE LED will stay in **Blue/Green/Orange**(depends on LTE signal strength) when Wingle is connected to network.
- ◆ User could also read above statuses from column “connection” on WebGUI, see more details on page 5.

USB Interface

- Remote NDIS is used. Windows 7, 10, Mac OS shall support RNDIS driver.
- An Ethernet interface will show up if RNDIS driver installed successfully. DHCP IP, 192.168.0.10, will be assigned. The RNDIS driver is supported by MAC OS and Window 7/10. If your machine does not have RNDIS driver installed, please check OS vendor website for help. For Linux OS, please check if RNDIS driver is available. To support Linux CDC-ECM/CDC-EEM driver, please contact with Sales for assistance.



How to Get LTE Information

Embed IP Everywhere

System

LTE

WiFi

Engineer

Expand Collapse

LTE Information

» **LTE Information Sercomm FW Version**

FW Ver	205A@1708312221	SDK Ver	0.3.2.4/0.64
IMEI	123456798213141	IMSI	31148000000041
MAC Addr	00:0A:3B:F0:00:00		

» **LTE Status LTE Connection Status**

UICC State	UICC Ready	Connention	Connected
PDN Type	IPv4		
IP v4 Address	192.168.150.26	IP v6 Address	N/A
PLMN Search	Success	MCC	311
PLMN Selected	31148	MNC	48
Physical CELL ID	501	CellGlobalID	311480002AAC
RSSI	-39	RSRP	-66
RSRQ	-7.0	SINR	13
Band	48	EARFCN	55350
BandWidth	20MHZ	TXPower	22.0
DLThr	0 bytes/sec	ServCellState	RRC CONNECTED
ULThr	0 bytes/sec		

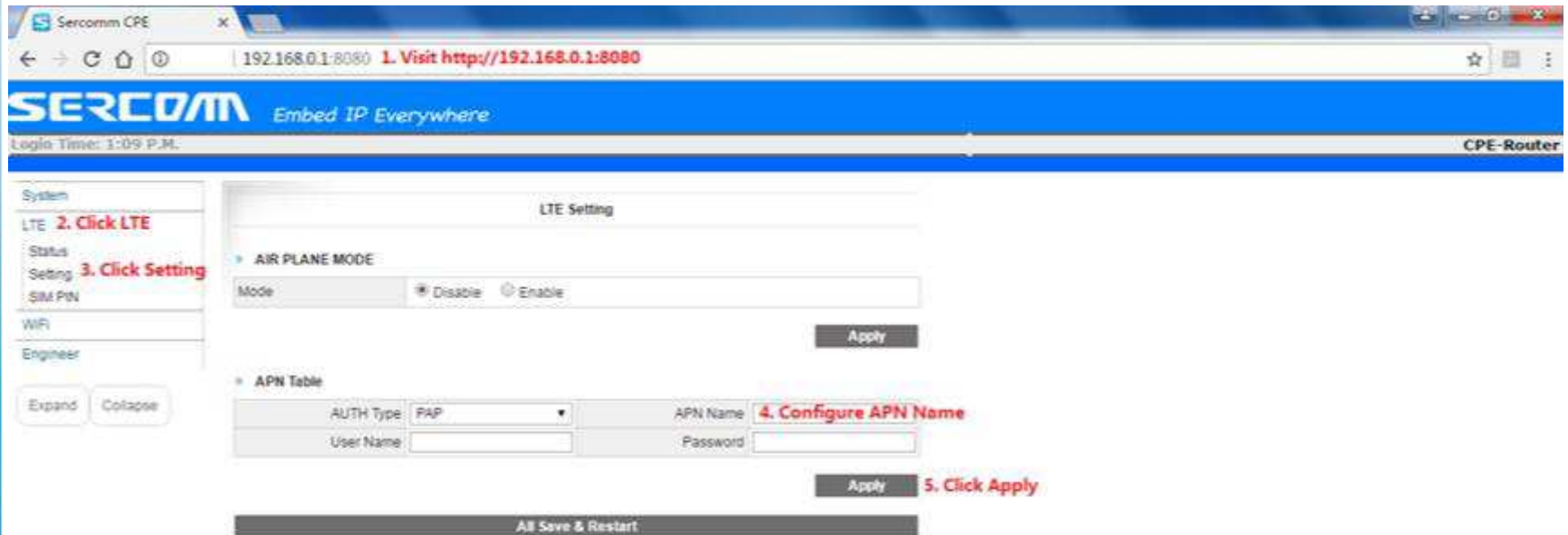
» **LTE Statistics**

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Steps:

1. Connect Wingle to laptop/PC via USB interface or Wi-Fi
2. Visit <http://192.168.0.1:8080>
3. LTE information will show

How to Configure APN Name



Steps:

1. Connect Wingle to laptop/PC via USB interface or Wi-Fi
2. Visit <http://192.168.0.1:8080>
3. Click 'LTE' on the left menu
4. Click 'Setting'
5. Configure APN Name/ Username/ Password if required
6. Click 'Apply'
7. Reboot the device

How to Configure Wi-Fi AP

1. Visit <http://192.168.0.1:8080>

2. Click WiFi

3. Click AP Setting

4. Configure SSID

5. Configure Authentication Mode

6. Click Apply to take effect immediately

Steps:

1. Connect Wingle to laptop/PC via USB interface or Wi-Fi
2. Visit <http://192.168.0.1:8080>
3. Click 'WiFi' on the left menu
4. Click 'AP Setting'
5. Configure SSID and other settings
6. Click 'Apply' to take effect

Embed IP Everywhere

How to Upgrade Firmware

The screenshot shows the SERCOM web interface for a CPE-Router. The browser address bar shows 192.168.0.1:8080/index.html. The page title is "SERCOM Embed IP Everywhere". The left navigation menu has "System" selected. The main content area is titled "Firmware Update" and contains a "Choose FW image to update" section with a list of four firmware files. Below the list is a "Status: Please select the update package file" message. There are two radio buttons for selecting the update package format: "Use the RAW Format (y-bootbin, image, romdisk, ufs and 8-gig)" and "Use the Update Package Format (update_XXX.bin)". An "Update" button is located at the bottom right of the form.

Steps:

1. Connect Wingle to laptop/PC via USB interface or Wi-Fi
2. Visit <http://192.168.0.1:8080>
3. Click 'System' on the left menu
4. Click 'Firmware Update'
5. Select Firmware file
6. Select Update Package Format
7. Click 'Update'

Check LED Status

LED Status	Description
None	Power Off/ System booting
Wi-Fi LED Always RED	Invalid (U)SIM, SIM card not inserted or PIN locked
Wi-Fi LED Always Blue	Wi-Fi working
LTE LED Always Blue	LTE connected and in good signal quality
LTE LED Always Green	LTE connected and in normal signal quality
LTE LED Always Orange	LTE connected and in poor signal quality

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:

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

The USB dongle transmitter is approved for use in typical laptop computers. To comply with FCC RF exposure requirements, it should not be used in other devices or certain laptop and tablet computer configurations where the USB connectors on the host computer are unable to provide or ensure the necessary operating configurations intended for the device and its users or bystanders to satisfy RF exposure compliance requirements.