

Wingle User Manual

V0.5

Oct. 25, 2019

Wingle User Manual v0.4

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Lift up Antenna Board



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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 trun 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.



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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

Sercomm CPE	×					
← → C ☆ ③ 192.	.168.0.1:8080 1. Visit	t http://192.168.0.1:80	080			☆ 🖪 🗄
SEDER/	TA I					
SEXLU	Embed IP	Everywhere				
Login Time: 1:50 P.M.						CPE-Router
System		LTE	Information			
LTE		LIL	mormation			
WiFi	» LTE Information	Sercomm FW Version				
Engineer	FW Ver	205A@1708312221	SDK Ver	0.3.2.4/0.64		
Evened Colleges	IMEI	123456798213141	IMSI	311480000000041	IMSI	
Expand	MAC Addr	00:0A:3B:F0:00:00				
	» LTE Status	» LTE Status LTE Connection Stat				
	UICC State	UICC Ready	Connenction	Connected		
	PDN Type	IPv4				
	IP v4 Address	192.168.150.26	IP v6 Address	N/A		
	PLMN Search	Success	MCC	311		
PLMNI	D PLMN Selected	31148	MNC	48	Steps:	Stens:
	Physical CELL ID	501	CellGlobalID	311480002AAC		
	RSSI	-39	RSRP	-66	RSRP	1. Connect Wingle to laptop/PC
	RSRQ	-7.0	SINR	13		via USB interface or Wi-Fi
	Band	48	EARFCN	55350	EARFCN	$2 \sqrt{100} + \frac{1000}{100} + \frac{10000}{100} + \frac{1000}{100} + \frac{10000}{100} + \frac{1000}{100} + 100$
	BandWidth	20MHZ	TXPower	22.0		2. VISIL <u>nilp:// 192.168.0.1.8080</u>
	DLThr	0 bytes/sec	ServCellState	RRC CONNECTED		3. LTE information will show
	ULThr	0 bytes/sec				
	» LTE Statistics					

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How to Configure APN Name

Bytem LIE Setting Step 3. Click Setting ARP HANE MODE Source 3. Click Setting APN Table Events Assor Steps: 1. Connect Wingle to laptop Via Via USB interface or Wi-F 2. Visit http://192.168.0.1:80 3. Click 'LTE' on the left mer 4. Click 'Setting' 5. Configure APN Name/ Us 9. Click 'Apply' 7. Beboot the device	o Time: 1:09.P.M.	Lembed IP Everywhere		CPE-5
LTE Setting Status Status ARP LANE MODE Weiner Application Appl	Aen I			S
Status • AR PLANE MODE weiner • Assir Weiner • Assir Board • APH Table Board • Area Steps: 1. Connect Wingle to laptop via USB interface or Wi-F 2. Visit http://192.168.0.1:80 3. Click 'LTE' on the left met 4. Click 'Setting' Steps: 5. Configure APN Name/ Us Password if required 6. Click 'Apply' 7. Behoot the device 7. Behoot the device	2. Click LTE	LTE Setting		
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Event Auth Type PAP APN Name 4. Configure APN Name User Name Password Steps: 1. Connect Wingle to laptop via USB interface or Wi-F 2. Visit http://192.168.0.1:80 3. Click 'LTE' on the left men 4. Click 'Setting' 5. Configure APN Name/ Use Password if required 6. Click 'Apply' 7. Reboot the device	Auses.	APN Table		
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Password if required 6. Click 'Apply' 7. Reboot the device				5. Configure APN Name/ Userna
6. Click 'Apply' 7. Reboot the device				Password if required
7 Rebot the device				6. Click 'Apply'
				7 Report the device
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How to Configure Wi-Fi AP

SERC0/	Embe	d IP Eve	erywhere			
ogin Time: 1:29 P.M.						CPE-Rou
System LTE	WiFi Setting					
WIFI 2. Click WiFi	» AP Setting	i				
AP Status	AP Instance		wlanDap	•		
AP Common AP Setting 3 Click AP S	WPS Enable		Disable	×		
AP Access	Network Nam	e (SSID)	Wingle	4. Configu	re SSID	
Engineer	Network Mod	e	11 b/g/n	•		
	Max No. of sta	ation	8	•		
Expand Collapse	Hidden SSID		Off	•		
	Authentication	1	Open Mode	 5. Configu 	ire Authentication Mode	
	Encryption		None WEP64	None 🔍 WEP64 🔍 WEP128 🔍 TKIP 🔍 AES 🔍 TKIP/AES		
	Network Key					
					Apply	6. Click Apply to take effect immediately
	» AP List					Steps.
	Instance	SSID	RF Mode	Authentication	Encrytion Add AP	1. Connect Wingle to laptop/PC
	wlan0ap	Wingle	11 b/g/n	Open	None Remove	via USB interface or Wi-Fi
					Apply	2 Visit http://102.168.0.1.8080
						2. visit iiiip.//192.100.0.1.0000
						3. Click 'WiFi' on the left menu
						4. Click 'AP Setting'
				Coj	pyright 2015. Sercomm Corporation	E Configure COID and other cottin
						5. Configure SSID and other settir
						6 Click 'Apply' to take effect



How to Upgrade Firmware



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Check LED Status

LED Status	Description
None	Power Off/ System booting
Wi-Fi LED Always RED	Invalid (U)SIM, SIM card not insterted 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.

