

# 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:

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

net Protocol version 4 (TCP/IP	v4) Proper	ties			?	-
eneral						
You can get IP settings assigned a this capability. Otherwise, you nee for the appropriate IP settings.	utomatically ed to ask yo	/ if y ur n	our net etwork	adm	(suppo inistrato	rts or
💮 Obtain an IP address automa	tically					
Use the following IP address:						
IP address:	10	. 10	. 2	. 1	0	
Subnet mask:	255	. 25	5.255	. 1	)	
Default gateway:			r.	<b>i</b> :		
Obtain DNS server address a	utomatically	ř.				
• Use the following DNS server	addresses:					
Preferred DNS server:				•		
Alternate DNS server:		,	•	e.		
Validate settings upon exit			6	Ad	vanced	



### **How to Login GUI**

https://1010.2.254/4des.ym/tech: # 🕴

← → C @ nmps://10.102254/ndm\_routm.htm 1. Visit https://10.10.2.254



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



## **How to Get LTE information**

CPE-Router

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→ C A Not secure | https://10.10.2.254/index\_router.htm 1. Visit https://10.10.2.254

#### SERCO/M Embed IP Everywhere

Login Time: 4:51 P.M.

Embed IP Everywhere

Status 2. Click "Status RRC/NAS Counter Environment Throughput Key-Counter Settings LTE Status Cause: [Established] Connection Status Connected Administration LTE information APN(NAT) 192.168.1.51 IP Address: LOG APN(Bridge) IP Address: APN(VLAN) IP Address: Log Out IMEI: 354021070040660 IMSI: 001012345678901 Restart EARFCN(DL): EARFCN(UL): 42590 42590 BW 20MHz PLMNID: 00101 PCI: 0 RSSE -45 TAC: 1 RSRP. -77 SINR: 29 CWMP Status: IDLE **Steps:** BandNeighbors: BandBlackList: 1.Visit https://10.10.2.254 LAN 2.Click "Status" on the left IP Address 10.10.2.254 DHCP Server ON Network Mask: 255 255 255 0 MAC Address 00-0A-38-12-34-61 menu Module PKG Version: 0.64.63.0R2360 0.3.2.17 ARM1 Version System Device Name Sercomm Firmware Version: RD1219@190315 Sercomm FW version Current Time 2013-06-20 14:11: Refresh Screen Help

Add your comment

Download Log

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### How to configure APN Name-NAT

NETWORK FIREWALL SIM PIN	Add your comment Download Log
NETWORK FIREWALL SIM PIN	
at 1	
all I	
3. Configure APN name	IPv4 •
	IPv4 V
/ A: Type(2-earfcn; 3-Band; 4-earfcn range); B: co lcns 42590,44590 : 2/2/42590/44590/ d 48 : 3/1/48/	ount; C: EARFCN/Band value Steps:
ch range at 42590-44590 : 41742590(44590) Frequency range Eartch range 3400-3600MHz 41590-43590 3600-3800MHz 43590-45590 3500-3700MHz 55200-57200	1.Visit <u>https://10.10.2.254</u> 2.Click "Setting" on the left menu
Save Cancel Apply 4. Click "Save"	<ul> <li>3.Configure APN Name if required</li> <li>4.Click "Save"</li> </ul>
	5.Click "Restart " or unplug to reb
	./ A: Type(2-earfcn; 3-Band; 4-earfcn range); B: c fcns 42590,44590 : 2/2/42590/44590/ d 48 : 3/1/48/ fcn range at 42590-44590 : 4/1/42590/44590/ Frequency range Earfcn range 3400-3600MHz 41590-43590 3600-3800MHz 41590-43590 3600-3700MHz 43590-45590 3500-3700MHz 55200-57200 Save Cancel Apply 4. Click "Save"

SERCO/M

### How to configure APN Name-Bridge

CPE-Router

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A Not secure | https://10.10.2.254/index\_router.htm 1. Visit https://10.10.2.254

Status       EXSC       ADVANCE       METWORK       BMEWALL	an range ware P.P.			da your comment
Administration LOG APN(NAT): Log Out APN(Brdge): Internet 3. Configure APN name Restart 5. Click "Restart" to reboot device  NTU: 1400  Search List Explain ABIC/. / A Type2-earlor: 3-Band, 4-earlor range): B court: C EARFCN/Band value Steps: Sample1 set earlors 42590,44590 2/242590/44590 Semple2 set band 41: 3/148/ Semple3 set earlor range Earlor range B42: 300-3000Mtr: 4150-45590 B45: 3000-3000Mtr: 4150-45590 B45: 3000-370Mtr: 5220-5720 ADDIT A. Click "Save" C.Click "Restart " or unplug to reboot device	Status Settings 2. Click "Se	BASK ttinge_set	ADVANCE NETWORK FREWALL ARADIN	
Roaming:       Image: Construction of the section of the	Administration LOG Log Out Restart 5. Click "Restart"	APN(NAT): APN(Bridge) APN(Bridge) to reboot	Internet 3. Configure APN name	□ IPv4 ▼ ■ IPv4 ▼ □ IPv4 ▼
NTU:       1400         Search List       ArB/C/. / A Type(2-earlor, 3-Band, 4-earlon range), B court, C EARFCN/Band value       Steps:         Sample1       set earlor s2590,44590       2/2/42590/44590/       Steps:         Sample2       set earlor range at 42590,44590       1/142/590/44590/       1.Visit https://10.10.2.254         Sample3       set earlor range at 42590,44590       4/142/590/44590/       2.Click "Setting" on the left menu         Band       Frequency range       Earlor range       3/148/       3/148/       3.Tick the checkbox of Bridge and configure APN Name if required         Band       Save       Cancel       Apply       4.Click "Save"       5.Click "Restart " or unplug to reboot device		Roaming	8	
Search List Explain Sample1 Sample2 Sample2 Sample3 Remark: Band Frequency tange Earton range B43 3600-3000MHz 41590-44590 B43 3600-3000MHz 41590-45590 B43 3600-3000MHz 41590-45590 B43 3600-3000MHz 41590-45590 B43 3600-3000MHz 45500-57200 B43 3600-3000MHz 45500-57200 B45 3500-3700MHz 55200-57200 B45 3500-3700MHz 45500-57200 B46 3500-3700MHz 45500-57200 B47 at some and the second second second the second second the second second the second second to the second second to the second second to the second to the second second to the second		MTU:	1400	
		Search List Explain Sample1 Sample3 Romark	A/B/C// A Type/2-earton; 3-Band; 4-earton range); B count; C sel eartons 42590; 44590 : 2/2/42590/44590/ set band; 40 : 3/1/48/ set earton range at 42590-44590 : 4/1/42590/44590/ Band: Frequency range: Earton range B42 : 3400-3000MHz; 41590-43590 B43 : 3600-3800MHz; 41590-43590 B48 : 3500-3700MHz; 45500-45590 B48 : 3500-3700MHz; 55200-57200 Save: Cancel: Apply 4. Click "Save"	Steps: 1.Visit <u>https://10.10.2.254</u> 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 to device

#### How to Upgrade Firmware

← → C A Not secure | https://10.10.2.254/index\_router.htm 1. Visit https://10.10.2.254

in Time: 5:34 P.H.	Add your comment Dow
Status	Upgrade TB000 Comfig File
Administration 2. C	lick Locate and Select the Upgrade File from your Hard Disk
LOG	Choose File No file chosen
Log Out	3. Click to choose firmware file
Restart	Upload Cancel Help
	4. Click "Upload"
	Channel
	Steps:
	1.VISIT <u>https://10.10.2.254</u>
	2.Click "Administration" on the left menu
	3.Click "Choose File" to choose firmware
	4.Click "Upload"

CPE-Router

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#### How to Reset to Default

CPE-Router	× +		
← → C ▲ Not secu	re   https://10.10.2.254/index_	router.htm 1. Visit https://	/10.10.2.254
SERCO/M	Embed IP Everywhe	re	
Login Tone: 6(26 P.H.			Add your comment Download Log
Status	Jugratile TRitila Config Fa	Click "Config Filo"	
Settings		S. Click Coning File	
Administration 2. Click	Backup Config Save a Co	py of Current Settings.	Dartura
Log Out	Default Config Equation	actory Datault Bottmos	Backup
Restart	Detail County Research	Facto	ry Defaults 4. Click "Factory Defaults"
5. Click "Restart" to r	eboot device		
		Help	
		Steps:	
		1.Visit https:	//10.10.2.254
		2.Click "Adm	inistration" on the left menu
		3.Click "Conf	ig File"
		4.Click "Facto	ory Defaults" to reset to default
		settings	•
		5.Click "Rest	art " or unplug to reboot the device
		0	SEDERA
P131CBRS-P User Ma	nual v1.3	8	SEXLUI

#### **How to Read LEDs**

STATUS	STATU	LTE SIGNAL LED			
STATUS	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 / 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



RP131CBRS-P User Manual v1.3



#### How to Mount the Device\_Wall Mount



RP131CBRS-P User Manual v1.3

#### **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.