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# LBT-T300-M400-C1 4G Routing Equipment User Manual

V1.4

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			Synchronization software V2.3	
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VI.I 2020	2020/ //15	Document Group	Add remote diagnosis function (only	
			applicable to Qualcomm platform module)	
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V 1.4			Added NC3/AC3/JC3 module parameter	
			Settings in remote diagnosis	

### **Revise history**

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## **Chapter 1. Overview**

M400-C1 is a 4G routing terminal device that can be freely equipped with Qualcomm MDM9x07 and ASR platform 4G wireless communication module. Support three network ports, support dual WIFI antenna, support serial port transparent transmission function.

The WAN network port can be configured as a LAN port or a WAN port. By default, the IP address is automatically assigned. After the network cable is inserted, the PC can use this device to bring 4G network functions.

The device provides Wi-Fi AP function. The default name of the Wi-Fi SSID is the last four digits of the 4G\_AP\_MAC address, and the default password is 12345678.

The default address of the device is 192.168.1.1, log in to the http://192.168.1.1 WEBUI management page, you can make various settings, and the login account is admin:admin.



## Note:

1) The DC power supply voltage range is 6V to 25V, it is recommended to use the matching power adapter.

- 2) Supports LTE network indicator, flashes when there is no card or registration, and always lights up during normal registration.
- 3) Support WAN and LAN network port indicator and WiFi indicator.
- 4) WAN port can be configured as WAN or LAN function on the page.
- 5) Supports factory reset button.
- 6) Please clear the browsing history of the browser before using the WEBUI management function.

## **Chapter 2. WEBUI Management System**

The device's default settings can work, or you can modify the default settings through the WEBUI management page. WEBUI management page supports Internet Explorer 11 and higher, Firefox, Chrome, Safari and other mainstream browsers.

### 2.1 Login

Open the browser, enter the address 192.168.1.1 and press Enter, the browser will display the login interface of the web management system, enter the user name admin, password admin, and click login to enter the management system.

Login	× +					
· > C C	) 不安全   192.168.1.1/login.html	07	Q	☆	Θ	
应用						
		-				
	admin					
	Contract					
	登录					
	忘记密码?					
		14				

### Note:

- If you enter the wrong username/password three times in a row, the login function will be locked. During the lock, you will not be able to log in to the web management system. You can only try to enter the password again after the lock time has passed.
- 2) The default username/password is very simple. For security reasons, users should change to a more secure username/password after logging in to the system. For how to modify the user name/password, please refer to the "Admin" chapter.

3) If you have forgotten your password, you can click on the forgotten password to proceed to the next step according to the prompts.

and the second second	
iamin	
	Login
	Forget Password?
User nar 178 secc	me or password error, please wait onds and try again!
idmin	
	Login
	Forget Password?
Press the settings, log in.	e reset key to restore the factory and then use admin: admin to
admin	
admin	
admin	Login

### **2.2 Home**

This page displays the current network mode, connection status, IP address, LAN related information, WIFI related information, device IMEI and SIM card related information and device information (such as system time, boot time, device version number, etc.). Display current network status and related information (such as connected network type, signal strength value, etc.).

40		China Mobile LTE
ome	Net Mode	4G
ternet	Connection State	Connected
	IP Address	10.189.245.131
rewall	Netmask	
	Gateway	
ac	Primary DNS	
- F.	Secondary DNS	
dmin	LAN IP Address	192.168.1.1
	LAN Netmask	255.255.255.0
nglish 🗸	Wi-Fi MAC	00:0C:43:E1:88:55
	SSID	4G AP 8855
Logout	IMEI	123456789012347
	SIM State	READY
	IMSI	460023218543035
	Telephone Number	
	Voice Registration St	ate Unregistered
	Data Registration Sta	ate Registered Home
	Network Type	LTE
	RSRP	-96.00
	RSRQ	-5.00
	Up Time	01:28:32
	Device Time	1/1/1970, 9:28:32 AM
	Total Memory	58.14 MB
	Free Memory	40.02 MB
	Modem Version	CLM920_AC3-V1 [Apr 22 2020 14:32:33]
	-	

### Note:

If there is no problem of registering the network or being unable to access the Internet, you can check whether the connection status has been successfully connected. The device time on this page shows that the network time cannot be synchronized. If you want to synchronize the network time, you can modify the settings by referring to "Time " on the "Admin " page.

### 2.3 Internet

### 2.3.1 WAN

Select the network mode is to choose the way to go online.

4G mode: You need to insert a SIM card to go online.

**DHCP mode**: You can not insert a SIM card, but you need to insert the interface labeled WAN into other routers or switches to automatically obtain an IP address for Internet access. **STATIC**: Compared to the "DHCP" method, you also need to manually configure Internet access information such as IP addresses.

The network mode needs to be reconnected after changing.

4G 😭	<u>ଚ୍</u> ଲ		Chi	na Mobile LTE 🌐 📊
Home	Select how to access	s internet. "4G" to	access internet by	y mobile network, and you need a SIM.
Internet	"DHCP" and "STATIC	", you need conni	ect device to a rol	uter or switch.
	when the setting ha	ve been changed,	network may res	tart, you may need to reconnect.
WAN	Network Mode	4G	~	
LAN		4G DHCP		
Mobile Net		STATIC		
Wi-Fi				
Client				
Firewall				

### 2.3.2 LAN

Configure the device IP address and device name, and configure the DHCP service parameters. After modifying the settings, you need to reconnect to the network.

If you do not know what DNS to use, you can configure only the primary DNS as the device IP address, leave the standby DNS blank, and enable the DNS proxy function.

Static IP address assignment function can assign fixed IP to the specified MAC address. Up to 3 designated MAC addresses can be assigned fixed IP.

Home	Setting router IP add	Iress and name. Configuring	DHCP parameters	
Internet	If you don't know D	NS, config it to router IP add	Iress and enable DN	S proxy.
	IP Address	192.168.1.1		
WAN	Netmask	255.255.255.0		
LAN	Host Name	4GAP		
WIODIIE NET				
VVI-FI	DHCP State	Enable 🗸		
Client	DHCP Start	192.168.1.100		
Firewall	DHCP End	192.168. <mark>1</mark> .200		
App	Primary DNS	192.168.1.1		
- PP	Secondary DNS			
Admin	DHCP Gateway	192.168. <mark>1</mark> .1		
	DHCP Lease	86400	Seconds	
English 🗸	Static Assign	MAC	IP	
Logout	Static Assign	MAC	IP	
	Static Assign	MAC	IP	
	UPNP	Disable 🗸		
	DNS Proxy	Enable 🗸		

### 2.3.3 Mobile Net

This setting modifies 4G related parameters, such as modifying the network mode (LTE only, GSM only, etc.). After setting to automatic mode, the device will automatically search for the best network according to the SIM card, for example, the LTE network is searched first, the WCDMA or EVDO network is searched second, and the GSM or CDMA 1x network is searched last. It is recommended to keep this setting.

APN setting function, the device presets most operator APN related settings, APN is set to automatically select the mode to automatically match. If the SIM card is special, it may not be automatically matched. In this case, you can manually set the APN. If the APN is set according to the requirements of the SIM card operator and you still cannot access the network, you can try to modify the authentication type. The three authentication types are different, and you can try them all.

Note: If equipped with CLM920\_AC3 module, the network standard only supports LTE and WCDMA.

4G 😭	<u>a.</u>		c	China Mobile LTE 🌐 📊
Home	Configuring mobile	network prefer net	work mode, S	etting mobile data network parameters.
×	Prefer network	Auto	~	
WAN	APN Mode	Auto	~	
LAN				
Mobile Net		OK		
Wi-Fi				
Client				
Firewall				
>				
Арр				
Admin				

### 2.3.4 Wi-Fi

This page can enable and disable WIFI. This setting can modify the Wi-Fi AP SSID, transmission channel, bandwidth, transmit power, encryption method and password. After ticking the  $\checkmark$  in front of the broadcast SSID, other devices will not be able to search for this Wi-Fi AP.

After WPS is enabled, you can use the WPS function for WIFI connection.

State	Enable
State	Enable
	Lilavie
SSID	4G_AP_8855 Broadcast
Channel	2412MHz (Channel 1) V
Band Width	20MHz/40MHz ~
Power	High 🗸
Security	WPA2-PSK
Password	Show Password
WPS	Disable
	OK
	Power Security Password WPS

### 2.3.5 Client

The device functions as a router. Wi-Fi AP and Ethernet are a local area network. This page displays the related settings of the local area network and the LAN client list.

DHCP List					
Host N	lame	MAC		IP	Lease Left
WIN-SFICE	3HSBR64	44:37:E6:70	:D1:95	192.168.1.100	86126
Station List					
MAC	Psm	BW		Connected Time	
ARP List					
IP		Flags		MAC	device
192.168	.1.100	2	44:3	7:e6:70:d1:95	br0
192.16	8.0.1	2	00:2a:2a:2a:2a:2a		eth0
	DHCP List Host N WIN-SFICE Station List MAC ARP List 192.168 192.16	DHCP List Host Name WIN-SFICBHSBR64 Station List MAC Psm ARP List IP 192.168.1.100 192.168.0.1	DHCP List Host Name MAC WIN-SFICBHSBR64 44:37:E6:70 Station List MAC Psm BW ARP List IP Flags 192.168.1.100 2 192.168.0.1 2	Image: DHCP List         MAC           Host Name         MAC           WIN-SFICBHSBR64         44:37:E6:70:D1:95           Station List         MAC         Psm         BW           ARP List         IP         Flags         192:168.1.100         2         44:3           192:168.0.1         2         00:2         192:168.0.1         100:2         100:2	Image: DHCP List         Mac         IP           WIN-SFICBHSBR64         44:37:E6:70:D1:95         192.168.1.100           Station List         MAC         Psm         BW         Connected Time           ARP List         IP         Flags         MAC           192.168.1.100         2         44:37:e6:70:d1:95         192.168.1.105

### 2.4 Firewall 2.4.1 WIFI MAC Filter

Accept list: Only MAC addresses added to the whitelist can access the network.

Deny list: Only MAC addresses added to the blacklist cannot access the network.

Before setting to accept list mode, add yourself to the accept list, otherwise you will be disconnected and can no longer connect to the device. After adding or deleting the mac address, remember to click the save button to take effect.

<b>4</b> G	ନ୍ଥ			China Unicom LTE 🌐 📊
Home				
Internet	>	State	Enable v	
Firewall	v	SSID	4G AP 8787	Broadcast
Wi-Fi MAC	C Filter			
Port Forwa	ard	Channel	2412MHz (Channel 1) V	
DMZ		Band Width	20MHz/40MHz v	
Secure		Power	High 🗸	
MAC/IP/Po	ort Filter	Security	WPA2-PSK ¥	
App	>	Password	•••••	Show Password
Admin	>			
			OK	

### 2.4.2 Port Forward

Port forward function, if the data packet sent from the external network to the router is forwarded to the host on the internal network if it is within the set port or port range. Use this function to allow intranet hosts to provide network services.

Ordinary SIM cannot use the port forwarding function due to operator restrictions. Some special network cards and IoT cards can use this function. After adding or deleting, you need to click the save button to take effect.

<b>4</b> G	ি		China Unicom LTE 🌐 📊
Home		The port forwarding fur	nction sends data packets from the external network to the router. If they are in the
Internet	>	set port or port range, t intranet hosts provide n	they will be forwarded to the host of the internal network. Use this function to let network services.
Firewall	¥	Because of restirct from	I SIM operator, port map doesn't work for most SIM. If you have edit the list, save
Wi-Fi MAC	C Filter	button should be presse	ed to save it to device.
Port Forwa	ard	Port Forward Mode	Disable
DMZ		Virtual Server Mode	Disable Enable
Secure		Virtual Server mode	
MAC/IP/Po	ort Filter		ОК
Арр	>		
Admin	>		

### 2.4.3 DMZ

DMZ is used to map the host address of the router's internal network to the external network, so that the internal network's host can provide network services. After setting up the DMZ host, the external network's access to the router's IP address will be forwarded to the corresponding DMZ host.

Ordinary SIM cannot use the DMZ function due to operator restrictions. Some special network cards and IoT cards can use the DMZ function. Selecting the "80 port" button means that port 80 is not forwarded. Uncheck the "80 port" button, then forward all ports.

4G	<u>?</u>		China Unicom LTE			
Home		DMZ is used to map	the host address of the router's internal network to the external network so that the			
Internet	>	host of the internal network can provide network services. After the DMZ host is set, the access of the external network to the router IP address will be forwarded to the corresponding DMZ host.				
Firewall	~	Due to the limitation	Due to the limitation of operators, ordinary SIM cannot use DMZ function. Some special network cards and IOT network cards can use DMZ function			
Wi-Fi MAC	Filter	If you select the "80	port" button, 80 port will not be forwarded. If the "80 port" button is not selected, all			
Port Forwa	ard	ports will be forward	led.			
DMZ		DMZ Enable	Disable ~			
Secure			Disable			
MAC/IP/Po	ort Filter					
Арр	>					
Admin	>					

### 2.4.4 Security Settings

Secure setting is some secure setting on firewall, these settings take effect after reboot.

Remote management is a WEB management from WAN port. Packet filter is used to filter packet which source address is LAN on WAN port.

lome	Secure setting is some s	ecure setting o	n firewall, these settings take effec	t after reboot
nternet	Remote management is	a WEB manag	ement from WAN port.	
	Packet filter is used to fi	lter packet whi	ch source address is LAN on WAN j	port
irewall		in a start and a start		
	Remote Management	Disable	~	
	WAN Port Ping Filter	Disable Enable		
WI-FI WAC FIITER	SPI Firewall	Disable	~	
Port Forward	Block Port Scan	Disable	~	
DMZ	Block SVN Flood	Disable	~	
Secure	Packet Filter	Disable	×	
MAC/IP/Port Filter				
		OK		

### 2.4.5 MAC/IP/Port Filter

You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.

4G 斊	L	China Unicom LTE
Home Internet	You may setup fire the Internet.	ewall rules to protect your network from virus,worm and malicious activity on
	Filter Enable	Disable 🗸
Firewall		Disable
Wi-Fi MAC Filter		SATER
Port Forward		
DMZ		
Secure		
MAC/IP/Port Filter		
Арр		
Admin		

### 2.5 App

### 2.5.1 PING Net

The PING function is a function to increase the stability of the mobile data connection. Sending PING packets will consume mobile data traffic.

The PING function detects that PING data packets are sent at a set time interval. If no data packets are received within the timeout period, the data packets are sent a set number of times in succession. If both times out, the device is restarted.

After setting, you need to restart the device.

4G 🔮			China Mobile LTE 🌐 📊
Home	If mobile network a	re selected to access into	ernet, this page setting check data connection stability.
Internet	It will send ICMP ec	ho packet to check data	connection, if timeout, device will reboot.
>	Setting take effect a	ifter next reboot.	
Firewall	PING State	Enable	~
> 	Server	114.114.11 <mark>4</mark> .114	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PING Interval	120	Seconds
PING Net	PING Timeout	30	Seconds
Serial App	PING Count	3	
Auto Reboot			
Admin		OK	

### 2.5.2 Serial App

Serial port transparent transmission is to transmit the frame-by-frame data received by the serial port to the server, and forward the data on the server to the serial port device.

This page can change the serial port transparent transmission setting, and can also modify this setting by receiving commands through the serial port. However, if the serial port transparent transmission function is disabled, you cannot continue to receive AT commands to modify the settings. If you do not need to connect to the server, you can set the server address to empty.

Home	DTU transmit data fror	n serial <mark>t</mark> o serve	r, and for	ward data from server to serial device.	
Internet	You can change DTU s disable DTU function in	You can change DTU setting by this web page, or change it by serial AT command. But if you disable DTU function in this page, it will not accept any AT command.			
	<ul> <li>Depends on your device</li> </ul>	ce hardware, sor	ne device	e does't support GPS.	
Firewall		er. Hannan Amerika		1	
	DTU State	Enable	~		
Арр	Baud Rate	115200	~		
PING Net	Data bits	8	~	]	
Serial App	Parity	None	~		
Auto Reboot	Stop bits	1	~		
Admin	Serial Frame Time	50		Milliseconds	
	Serial Frame Length	1024			
English V	Server				
Locout	Server Port	0			
Logodi	Server Protocol	TCP	~		
	Registration Packet State	Disable	~		
	HeartBeat State	Disable	~	]	
	GPS State	Disable	~		

### 2.5.3 Auto Reboot

To maintain device stability, you can set the device to automatically restart. The mode every few hours means that the device will restart after a few hours from the start. Daily fixed time mode, which means that the device will restart at a set time every day, this mode requires clock synchronization to be turned on.

4G 줄	Ť		Chi	na Mobile LTE 🧲	) III €
Home Internet	To maintain the stabili Reboot In Hours mode Reboot Everyday mod open Time Sync to NT	ity of the device, e means that the e means that the P.	you can set the o device will restar set time device	device to restart au rt after several hou will restart every d	itomatically. Irs from power on. Iay. This mode needs to
Firewall	Auto Reboot State	Disable	~		
Арр		Reboot In Hou Reboot Everyd	rs lay		
PING Net					
Serial App					
Auto Reboot					
Admin					

### 2.6 Admin

### 2.6.1 User Management

Modify login account and password.

4G	ି		China Mobile LTE 🌐 📊
Home			
Internet	>	New User Name	
Firewa <mark>ll</mark>	>	New Password	
Арр	>		
Admin	*	OK	
User Man	agement		
Time			
Telnet Se	rvice		
Remote D	Diag		
Upgrade	Firmware		
Reboot			

### 2.6.2 Time

You can set the time zone and whether to enable the function of synchronizing to the network time. After setting, you need to restart the device. Disabled by default.

4G	ি			China Mobi	le LTE 🌐 📊
Home					
Internet	>	Time Zone	(GMT-11:00) Mid	lway Island, Samoa	~
Firewall	>	Time Suns to NTD	Disable	~	
Арр	>	Time Sync to NTP			
Admin	v		OK		
User Man	agement				
Time					
Telnet Se	rvice				
Remote D	Diag				
Upgrade	Firmware				
Reboot					

### 2.6.3 Telnet Service

After enabling, the device can be connected through Telnet tool.

4G	ি			China Mobile LTE	all
Home		Telnet Service, devic	e should reboot after	modify this setting.	
Internet	>				
Firewall	>	Telnet Service	Enable	~	
Арр	>		OK		
Admin	v				
User Man	agement				
Time					
Telnet Se	rvice				
Remote D	Diag				
Upgrade	Firmware				
Reboot					

### 2.6.4 Remote Diag

Equipped with NC3/AC3/JC3 module, QXDM can capture logs after filling in the correct IP address.

Equipped with NC3 Module:

<b>4</b> G	ନ୍ଥ	China Unicom LTE
Home Internet Firewall	>	Remote diag service. This service depends on special module. It is used to diag module bug. Keep it close in normal mode. Diag service parameter should contain server IP address, and diag port optionally. Such as:192.168.1.60 or 192.168.1.60 /dev/ttyUSB2 for NC3 module. Such as -t -c 192.168.1.60 -p 32122 -d /dev/ttyUSB0 for
Арр	>	Acs module. Note: When device reboot, the service should start again to take effect.
Admin User Manag	• gement	Diag Parameter
Time		Start Stop
Telnet Servi	се	
Remote Dia	g	
Upgrade Fir	mware	
Reboot		

Active Phones P	orts Active Clie	ents IP Server	
📝 Accept clien	t connecti.	IPv4 Only	*
IP Address			Create COM3000x ports using client's
🔘 Use PC IP	addres		O Use IP address only. Use this set
Server	dong-PC		and other devices where the clien changes after a device restart. The with all device twice the limit of
Server IP	192.168.1.100		Use IP address and port number. U non-WinMobile devices that always
🔵 Vse specif	fied IP addr		number after a device restart. If its port number after a restart Q
	192 . 168 .	12 . 1	Ignore IP address or port differe: port number. Device will change i reset This will guarantee the re
Server Port			an increase of port number.
🔵 Vse system	n assigned port nu	π	
	2500		
) Vse specif	fied port num		
	2500		



ag     GPS     1       Port     State     Label     Phone       COM1     Active     N/A     N/A       COM13     Active     N/A     N/A       COM14     Active     N/A     N/A	Device Selectio	n				2
Port     State     Label     Phone     Com       ] COM1     Active     N/A     N/A     0k       ] COM13     Active     N/A     N/A     0k       ] COM14     Active     N/A     N/A     3       [ COM14     Active     N/A     N/A     3       [ COM130001     Bupping     COM30001     MDM9607 (0x806ccba1)	iag GPS	1				
COM1       Active       N/A       N/A         COM13       Active       N/A       N/A       3         COM14       Active       N/A       N/A       4         COM130001       Buncing       COM30001       MDM9607 (0x806ccba1)	Port	State	Label		Phone	Conn
COM13         Active         N/A         N/A         3           COM14         Active         N/A         N/A         3           COM30001         Rupring         COM30001         MDM9607 (0x806ccba1)	COM1	Active	N/A	N/A	-	Oka
COM14         Active         N/A         N/A           COM30001         Running         COM30001         MDM9607 (0x806ccba1)	COM13	Active	N/A	N/A	3	
COM30001 Running COM30001 MDM9607 (0x806ccba1)	COM14	Active	N/A	N/A		
	Z COM30001	Running	COM30001	MDM9607 (0x8	06ccba1)	

### How to use AC3/JC3

### Preparations for Windows

### 1. Open "CATStudio" and select "Online Parse Log".



### 2. Use the configuration tool as the TCP server

MC ASR CATStudio	3.0.7.82 - MiniViewer								
E Workspace N	dodules Utilities Log	Action Display Theme \	Vindow Options	Help					
	🕨 🖬 🖬 🍾 I 🐼								
Co LogView	ver ML MiniViewer					-	× Logger		џ×
Taday	LIE Time Steme	Data	<b>Call</b>	DC Time Stews	Task ID	ci-		Logger	
Index	OE time stamp	Data	Cell	PC time stamp	Task ID	Sig	ļīne		
							Logger Informat	on Status: De Sta	t Stop
							Property	Value	
							File name	Log 2022-06-15 15	;17;40.7
1							File size	0.00 MB	
1							File count	1	
1							Message coun	: 5 0 / married	
							Throughput	0 / second	
							Dropped mess	0	
							bropped mess	0	
							C Cott		rmation
							Seu	ligs OE Init	Induon
							CpLo	Start GetA	pLog
							Database		
							Chan Ali	- Davies and	
							Davidas 0	e Device of ay	
							CP LIE:	0×00000000	
							CP ACAT:	0xface54d7	
							AD LIE:	0×00000000	Update
							AP ACAT:	0x153bf94f	
							1		
							Device 1		
							CP UE:	0x00000000	
							CP ACAT:	0x00000000	Update
							AP UE:	0x00000000	
						1	AP ACAT:	0x00000000	
							Device 2	0×00000000	
							CP ACAT:	0x00000000 ()	
							AP LIE-	0x00000000	Update
		m					AP ACAT:	0x00000000	
Diag Device ALL;N	Modem Device ALL			Wenner warmen and the			.:i De	vice Communication	:
Ready				CPU Usage: 2% Me	m Usage: 96 MB	🛛 📷 Database 🥚 Device 0	🥏 Device 1 🥏 Dev	ce 2 🧶 Device 3 🍬	Device 4

LogViewer 🖑 MiniViewer 👻 🗙							Device Communication			
	UE Time Stamp	Data	Cell	PC Time Stamp	Task ID	Sigi		L	ogger	
								Device C	ommunication	
Com	munication Settin	gs		L	×		Device 0 127.0.0.1 : 1	32122		
D	evice 0 Global Setting						TCP Server	Diag	Settings	
	Protocol Diag	•					Device 1 Marvel Mode	em Device (CO	M129)	
	O USB USB Device						Serial	RawData	Settings	
4	🔘 Serial			/			Device 2 Marvell ADB			
	Serial Port		/				USB	AdbData	Settings	
	Bat	ud Rate 115200		Reliable Tranferring Split Lines			Device 3			
	Socket Type				_		USB	Diag	Settings	
	CP Clien     TCP Serve	t IP: [	127.0.0.1	Port: 3212	2		Device 4			
	O UDP						USB	Diag	Settings	
	Advance Auto Detec	tion					🔲 Bridge			
	Dump Recei	ived Data					No Bridge De	vices		
							Bridge Devi	ce 1 🔻 To	Device 3 👻	
			OK	Cance	el					

### 3. Confirm equipment IP address at windows end



### 4. Setting of IP parameters at device end

4G	<u>?</u>				China Unicom LTE
Home		Remote diag service.	This service depends	on special	module. It is used to diag module bug. Keep it
Internet	>	close in normal mode	e.		
Firewall	>	or 192.168.1.60 /dev/	ter should contain ser /ttyUSB2 for NC3 mo	ver IP addre dule. Such a	ess, and diag port optionally. Such as:192.168.1.60 is -t -c 192.168.1.60 -p 32122 -d /dev/ttyUSB0 for
Арр	>	Note: When device re	eboot, the service sho	uld start ac	aain to take effect.
Admin	~			-	Enter the IP address on the same network segment as that on the Linux device and
User Mana	gement	Diag Parameter	-t -c 192.168.1.10	0 -p 32	Windows device
Time			Start	Stop	
Telnet Serv	/ice		H-I		
Remote Di	ag				
Upgrade F	irmware				
Reboot					

### 2.6.5 Upgrade Management

To upgrade the firmware, please obtain the firmware version through technical support. Failure to test the firmware may cause the upgrade to fail or fail to boot.

Please upgrade the bootloader carefully. This operation may damage the device.

During the upgrade, please do not turn off the power or interrupt the operation. The device may be damaged. Please log in to this page via network cable to upgrade.

Upgrade steps: After logging in to the webui interface, select Admin ---- Upgrade Firmware ---- Select Firmware and click Upload to upgrade. After the device restarts, the upgrade is successful.

4G 🔒	China Mobile I		
Home	Upgrade device firmware. You should only download firmware from o	ffical web size, or de	evice will no
Internet ,	boot up.		
Firewall >	You don't need to upgrade bootloader generally. This may damage de Don't reboot device or turn off power when upgrading is on going, or	evice if fail to upgrad device will not boo	de. t up.
App >			
Admin 🔶	1 Select Firmware 🔶 3 Upload		
User Management			
Time	Select Bootloader		
Telnet Service	Stitt Schlett		
Remote Diag			
Upgrade Firmware	<b>←</b> 2		
Reboot			
4G 🤶	China Mobile L	LTE ( III	
4G	China Mobile L	LTE ( , III	×
Home Internet	China Mobile L の 打开 〇〇〇〇〇〇 () 《 DTU 、 CLP500-MT7628-16MFL マ 4ヶ) 渡	LTE ()	-16MF P
4G	China Mobile L の 打开 の してし ・ CLP500-MT7628-16MFL ・ チョ 渡 组织 ・ 新建文件夹	LTE ⊕ .]]	-16MF P
4G	China Mobile L ● 打开 ● ● ● ● ● ● ● ■ ● ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	LTE ① ]] 读 CLP500-MT7628 副語 マ 修改日期	- <i>16MF ♀</i> 「」 ② 类型
4G	China Mobile L ● 打开 ● ① ● ● 《 DTU → CLP500-MT7628-16MFL ▼ ←	LTE ① ]]] 安 CLP500-MT7628 意王 マ 修改日期 2020/7/2 17:52	· <i>16MF 9</i> 一 受 类型 文件
4G	China Mobile L ● 打开 ● ● ● ● ● ● ● ● ■ ● ■ ■ □ ← ● ● ■ ■ □ ← ● ● ■ ■ □ ← ● ● ■ ○ ■ ■ □ ← ● ● ■ □ ← ● ● ■ □ ← ● ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	LTE ① ]] 读 <i>CLP500-MT7628</i> 修改日期 2020/7/2 17:52 2020/7/2 20:15	- <i>16MF</i> <b>》</b> 一 一 一 一 一 一 一 一 一 一 一 一 一
4G	China Mobile L ● 打开 ● ① ● ● 《 DTU → CLP500-MT7628-16MFL ◆ 49 度 组织 ▼ 新建文件夫 ■ 图片 ● 文档 ● 首乐 ● 首乐 ■ 计算机	LTE ① ↓↓ 凄 CLP500-MT7628 憲王 ▼ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:53	-16MF <b>戶</b> 二 ② 类型 文件 好压 IM 文本文柱
4G S	China Mobile L ● 打开 ● 「丁丁 → CLP500-MT7628-16MFL ▼ 4 ④ 公档 ● 図片 ● 文档 ● 首乐 ● 前示 ● 計算机 ● 注算机 ● 注算机 ● Win7 (C)	LTE ① ① ① 蒙 CLP500-MT7628 意王 ~ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:13 2020/7/2 20:13 2020/7/2 20:13	- <i>16MF</i> <b>9</b> 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
4G	<ul> <li>● 打开</li> <li>● 「打开</li> <li>● 「」 ◆ DTU ◆ CLP500-MT7628-16MFL ▼ ◆ ● 愛</li> <li>④ 新建文件夹</li> <li>● 图片</li> <li>● 茶</li> <li>● 音乐</li> <li>● 音乐</li> <li>● 計算机</li> <li>● ☆ Win7 (C:)</li> <li>● 本地磁盘 (D:)</li> </ul>	LTE ① ① ① 建築 CLP500-MT7628 単語 マ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50	- <i>16MF</i> <b>戶</b> 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
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4G S	<ul> <li>◆ 打开</li> <li>◆ DTU 、 CLP500-MT7628-16MFL ◆ 4 使</li> <li>④ 部建文件夹</li> <li>④ 部建文件末</li> <li>● 图片</li> <li>● 家</li> <li>● 部系</li> <li>● 音乐</li> <li>● 計算机</li> <li>● 本地磁盘 (D)</li> <li>● 本地磁盘 (E)</li> <li>● 本地磁盘 (F)</li> </ul>	LTE ① ① ① 変 CLP500-MT7628 意 CLP500-MT7628 意 2020/7/2 17:52 2020/7/2 17:52 2020/7/2 20:13 2020/7/2 20:13 2020/6/11 11:50	- <i>16MF</i> <b>》</b> 一 一 ② 类型 文件 好压 IM 文本文档 BIN 文件 BIN 文件
4G S	<ul> <li>打开</li> <li>① ● ● ▲ DTU &gt; CLP500-MT7628-16MFL ● 49 度</li> <li>组织 ● 新建文件夫</li> <li>图片</li> <li>文档</li> <li>● 音乐</li> <li>● 計算机</li> <li>▲ 地磁盘 (D:)</li> <li>● 本地磁盘 (F:)</li> <li>● 本地磁盘 (F:)</li> <li>● Apple iPhone</li> </ul>	LTE ① ① ① 蒙 CLP500-MT7628 憲 ~ 修改日期 2020/7/2 17:52 2020/7/2 20:13 2020/6/11 11:50	- <i>16MF</i> <b></b> - <i>16MF</i> <b></b> 受型 文件 好压 IM 文件 BIN 文件 BIN 文件
4G S	<ul> <li>竹开</li> <li>① ● ● ● ● ■ CLP500-MT7628-16MFL ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</li></ul>	LTE ① ① ① 使た日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50 5	-16MF <b>9</b> 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
4G Home Internet Firewall App Admin User Managemer Time Telnet Service Remote Diag Upgrade Firmwar Reboot English ✓	China Mobile L 打开 ① ● ● ● DTU → CLP500-MT7628-16MFL ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	LTE ① ① ① 蒙 CLP500-MT7628 意王 ~ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50 5 文件 (*.*)	-16MF -16MF -16MF 文件 文件 安型 文件 BIN 文件 BIN 文件 BIN 文件

4G 🖀	China Mobile LTE
Home	Upgrade device firmware. You should only download firmware from offical web size, or device will no
Internet >	boot up.
Firewall >	You don't need to upgrade bootloader generally. This may damage device it fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up.
Арр >	
Admin v	Select Firmware 1 file(s) selected Upload
User Managemen	t
Time	
Telnet Service	Select Bootloader Upload 6
Remote Diag	
Upgrade Firmwar	e de la construcción de la constru
Reboot	
Home	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up.
Home	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade.
Home Internet	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up.
Home Internet Firewall	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up.
Home Internet Firewall App	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload
Home Internet Firewall App Admin User Managemer	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload
Home Internet : Firewall : App : Admin : User Managemen Time	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload
Home Internet Firewall App Admin User Managemer Time Telnet Service	Upgrade device firmware. You should only download firmware from offical web size, or device will no boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload Select Box Device is updating, it will take about 2 minutes. Don't break it.
Home Internet Firewall App Admin User Managemen Time Telnet Service Remote Diag	Upgrade device firmware. You should only download firmware from offical web size, or device will not boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload Select Boo Device is updating, it will take about 2 pload
Home Internet Firewall App Admin User Managemer Time Telnet Service Remote Diag Upgrade Firmwar	Upgrade device firmware. You should only download firmware from offical web size, or device will not boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up. Select Firmware 1 file(s) selected Upload Select Boo Device is updating, it will take about 2 pload

The network will be disconnected during the upgrade process, and the network will automatically recover after the upgrade is successful.

### Upgrade bootloader:

After logging in to the webui interface, select Admin----- Upgrade Firmware-----select Bootloader ----- select the file to open, click upload to upgrade, wait for the device to restart.

4G <u>ବ</u>		China Mobile	LTE ( 11	
Home	Upgrade device fir	irmware. You should only download firmware from	offical web size, or d	evice will n
Internet >	boot up.			
Firewall >	You don't need to Don't reboot devi	o upgrade bootloader generally. This may damage o ice or turn off power when upgrading is on going o	device if fail to upgra or device will not boo	ide. st.up
App >				
Admin 🛶 1	Select Firm	nware Upload	1	
User Management			•	
Time				
Telnet Service	Select Boot	loader - 3 Upload		
Remote Diag				
Upgrade Firmware	<b>~</b> 2			
Reboot				
4G 🎅	0	China Mobile	LTE 🌐 .1	
<b>4G</b> 💁	打开	China Mobile	ute ⊕ <b>,   </b>	X
4G	打开 )〇〇〇 🔒 « DTU	China Mobile U → CLP500-MT7628-16MFL	LTE () , ]]	16MF 🔎
4G	打开 → → → ≪ DTU 组织 ▼ 新建文件:	China Mobile U → CLP500-MT7628-16MFL	LTE	16MF P
4G	打开 → → → ≪ DTU 组织 ▼ 新建文件: ■ 图片	China Mobile U → CLP500-MT7628-16MFL	LTE ① ]] 該案 CLP500-MT7628- ⑧Ⅲ ▼ ] 修改日期	× 16MF タ 〕 ② 类型
4G	打开 → → → → ← → → → → → → → → → → → → → → →	China Mobile U → CLP500-MT7628-16MFL + + + 援 決 名称 1 mt7628 uImage	LTE ① 11 該案 CLP500-MT7628- ◎Ⅲ ▼ 修改日期 2020/7/2 17:52	2 16MF <b>9</b> 〕 ② 类型 文件
4G	打开 ④ ● 図片 ● 文档 ● 音乐	China Mobile U 、 CLP500-MT7628-16MFL 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	LTE ① 11 密索 CLP500-MT7628- 8日 ~ 修改日期 2020/7/2 17:52 2020/7/2 20:15	X 16MF 夕 〕 ② 类型 文件 好压 IM
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4G	打开 ② ○ ○ ③ 《 DTL 组织 ▼ 新建文件: ◎ 图片 ◎ 文档 ③ 音乐 ◎ 计算机	China Mobile U 、 CLP500-MT7628-16MFL 、 チャ チ 突 名称 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin	LTE ① ① ① 注 E CLP500-MT7628- 選 E ~ ○ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:13	16MF <b>ク</b> 1000 美型 文件 好压 IM 文本文権 BIN 文作
4G	打开 ④ ♥ ● OTL 组织 ▼ 新建文件: ● 图片 ● 文档 ● 音乐 ● 计算机 ● Win7 (C:)	China Mobile U 、 CLP500-MT7628-16MFL 、 4 4 後 文字 名称 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin uboot.bin	LTE ① ① ① 該京 CLP500-MT7628- ◎Ⅲ ▼ 修改日期 2020/7/2 17:52 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:13 2020/6/11 11:50	2 16MF <b>9</b> 类型 文件 好压 IM 文本文档 BIN 文件 BIN 文件
4G	打开 ④ ● ● ● ★ ④ ● ● ○ ★ ● ● ● 文档 ● ● 章乐 ● ● ↓ 章机 ▲ Win7 (C:) ● ● 本地磁盘 (D:)	China Mobile U 、 CLP500-MT7628-16MFL 、 チャ チャ 漢 文 名称 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin uboot.bin	LTE ① ① ① 登蒙 CLP500-MT7628- 管田 マ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:13 2020/6/11 11:50	2 16MF 文件 好压 IM 文本文档 BIN 文件 BIN 文件
4G	打开 ④ ● 図片 ● 図片 ● 注算机 ● 计算机 ● 小 音乐 Win7 (C:) ● 本地磁盘 (D:) ● 本地磁盘 (E:)	China Mobile U 、 CLP500-MT7628-16MFL 、 チャ 検 空 空 名称 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin uboot.bin	LTE ① ① ① まま CLP500-MT7628- 意語 マ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50	2 16MF タ 10 美型 文件 好压 IM 文本文档 BIN 文件 BIN 文件
4G	打开 ④ ♥ ● ● DTL 组织 ▼ 新建文件 ● 图片 ● 文档 ● 音乐 ● 計算机 ● 公档 ● 金地磁盘 (D:) ● 本地磁盘 (F:) ● 本地磁盘 (F:)	China Mobile U 、 CLP500-MT7628-16MFL 、 4 4 後 文 文 名称 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin uboot.bin uboot.bin	LTE ① ① ① また CLP500-MT7628- 意志 ~ ① 修改日期 2020/7/2 17:52 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50	2 16MF <b>9</b> 类型 文件 好压 IM 文本文相 BIN 文作 BIN 文作
4G	打开 ④ ● ● ● ★ ④ ● ● ● ★ ● ● ● ★ ● ● ● ↓ ● ● ↓ ● ● ↓ ● ● ↓ ● ● ↓ ● ● ↓ ● ↓	China Mobile U 、 CLP500-MT7628-16MFL 、 文 定来	LTE ① ① ① 注意 CLP500-MT7628- ◎Ⅲ ▼ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:53 2020/6/11 11:50 5	2 16MF
4G	打开 ④ ● ● ● ● ● ● ● ● ● ● ● ● ■ ● ■ ● ■ ● ■	China Mobile U 、 CLP500-MT7628-16MFL 在 在 都 mt7628_uImage mt7628_uImage_dual_image_factory.i releasenote.txt RFparameter.bin uboot.bin uboot.bin	LTE ① ① ① 注意 CLP500-MT7628- ⑧Ⅲ ▼ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:53 2020/7/2 20:13 2020/6/11 11:50 5	2 16MF
4G	打开 ④ ● ● ● ● ● ● ● ● ● ● ■ ● ■ ● ■ ● ■ ● ■	China Mobile	LTE ① ① ① 注意 CLP500-MT7628- ◎Ⅲ ~ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50 5 文件 (*.*)	16MF <b>戶</b> 受加 文件 好压 IMU 文本文档 BIN 文件 BIN 文件
4G	打开 ④ ● ◎ ▲ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	China Mobile U 、 CLP500-MT7628-16MFL 、 チャ 後 文件名(N): uboot.bin	LTE ① ① ① 注意 CLP500-MT7628- 選ె ~ 修改日期 2020/7/2 17:52 2020/7/2 20:15 2020/7/2 20:15 2020/7/2 20:13 2020/6/11 11:50 5 文件 (*.*)	2 16MF タ ジ 学型 文件 好压 IM 文本文格 BIN 文件 BIN 文件

Home	Upgrade device firmware. You should only download firmware from offical web size, or device will no
Internet	boot up.
Firewall	Don't reboot device or turn off power when upgrading is on going, or device will not boot up.
Арр	
Admin ,	Select Firmware Upload
User Managemer	
Time	Select Rootloader 1 file(s) selected Linkad
Telnet Service	
Remote Diag	
Upgrade Firmwar	6
D-1	
4G	China Mobile LTE
4G	China Mobile LTE
Home	China Mobile LTE
Home Firewall	China Mobile LTE
App >	China Mobile LTE () II Success Upgrade device firmware. You should only download firmware from offical web size, or device will not boot up.
Admin	China Mobile LTE ( ) II Success Upgrade device firmware. You should only download firmware from offical web size, or device will not boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade.
Admin v	China Mobile LTE ( ) II Success Upgrade device firmware. You should only download firmware from offical web size, or device will not boot up. You don't need to upgrade bootloader generally. This may damage device if fail to upgrade. Don't reboot device or turn off power when upgrading is on going, or device will not boot up.
Admin v Viser Management	China Mobile LTE ① ①
Admin v Time Telnet Service	China Mobile LTE ( )
Admin v User Management Time Remote Diag	China Mobile LTE () ) China Mobile LTE () )

Note: After successful upgrade, you need to press the factory reset button.

### 2.6.6 Reboot

Restart the device. There are some items in the page settings that need to restart the device to take effect. If it cannot be used after setting, it is recommended to restart the device here.

4G	ିର	China Mobile LTE 🌐 📊
Home		Reboot Device. If some setting doesn't take effetct. Reboot device to test it.
Internet	>	Reboot Device
Firewall	>	
Арр	>	
Admin	v	
User Man	agement	
Time		
Telnet Ser	rvice	
Remote D	Diag	
Upgrade I	Firmware	
Reboot		
English 🗸		
Logout		