



WF821E Let's go

Getting started with your device.



ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,
Shenzhen, Guangdong,
P.R.China
Postcode: 518057



LEGAL INFORMATION

Copyright © 2015 ZTE CORPORATION.

All rights reserved.

No part of this publication may be excerpted, reproduced, translated or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without the prior written permission of ZTE Corporation.

The manual is published by ZTE Corporation. We reserve the right to make modifications on print errors or update specifications without prior notice.

Version No. : R1.0
Edition Time : 2015.6.12

Getting to Know Your Device

Packing list

Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Outdoor CPE Products	Quantity
IDU unit	1
12 VDC Power Adapter	1
PC Ethernet Cable	1

If you find any of the items is missing, please contact our local distributor immediately.

Unpacking the Equipment

All the standard parts that are supplied in your LTE CPE Unit Installation Package. Please take time to unpack the package and check its contents against this list.



LED Indicators

LED	Function	Description
SYS	Power Indicator	Orange Color – Device is power on and booting Green Color – Device at work
NET	WAN Indicator	OFF – NO WAN cable connected. Blinking Green – WAN data transmission in progress.
RF	4G Signal Indicator	1st: -140 dBm <= RSRP < -115 dBm 2nd: -115 dBm <= RSRP < -110 dBm 3rd: -110 dBm <= RSRP < -105 dBm 4th: -105 dBm <= RSRP
SIM	SIM Card status	Light is on – SIM Card state ready
WiFi	WiFi status	Green Light is on – WiFi is enabled and working
WPS	WPS Service Access	Blinking Orange – Device WPS at work
ETH	LAN port status	OFF – No LAN cable connected Solid Green – The LAN port is up Blinking Green – LAN data transmission in progress

LED	Function	Description
MSG	Message Indicator	Light is on – Message received

Connection Scenario

To power on the device, the Indoor CPE uses a 12V DC power supply from the adapter. All power adapters can operate in 90-250V AC range and therefore can be used in different countries. Once the device is powered, the operator should wait for about 2 minutes before the device becomes operational. The CPE PWR LED indicator will changes from Blinking to Solid orange light to indicate the device has completed the startup procedure.

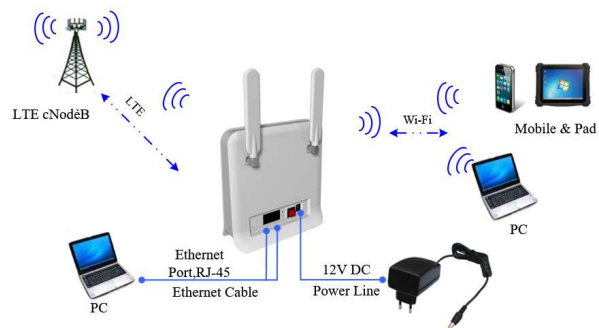
To connect PC, LAN switch or other type of IP device to the CPE product, the operator should use standard CAT5 Ethernet cable and connect to the appropriate LAN port. Once connected, the corresponding CPE LAN LED indicator should light up.

To use the phone service(For WF821+ Only), operator can simply plug the phone line to the CPE RJ11 port in the back. If the line is not registered or configured, a fast busy tone will be provided and the corresponding LINE LED light will be off.

For FIX CPE product, it is recommended that the installation shall be operated by professional engineer. For the phone and LAN connection, it is recommended that to keep a distance of at least 80cm.

As following pictures show, the pedestal should be fixed by 3 screws, and then the CPE can be stuck by the pedestal in horizontal or on the wall.



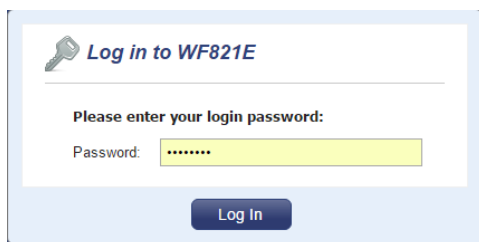


Connecting to Your Device

WF821E CPE supports several management interfaces including TELNET, WEB, and TR-069 for local or remote managements. However normal end user is only provided with WEB based access.

WEB Login

It is a preferred to setup the CPE using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC have acquired IP address via DHCP from the device. After IP connectivity is established between the PC and CPE device, the user may launch a Web browser and specify <http://172.16.1.1> in the address bar. A window will pop up requesting password. Input the user login password and then click the “Log In” button. After successful log on, the default home page of the WEB GUI interface will appear. Note that the default user password is “user123”.



Device Status

Once the user is logged in, the following window device status window will be prompted for viewing. It contains both the wireless link information, networking and device information configured for the device. For wireless info gives quite detailed information about the radio connection and user can use it to determine the receiving signal strength and transmit power of the device.

System Status

System Status

System Info

Manufacturer:	ZTE
Software Version:	WF821E_V3.0.0B01
Hardware Version:	V3.0
Serial Number:	KZT133FFD7A3
System Current Time:	2016-03-21 11:25:54
System Up Time:	9 mins, 54 secs
Operation Mode:	Router

General Information

Connect Status:	Disconnected
Network Operator:	
Technology:	LTE
Connected Time:	
Signal Strength:	□□□□□

WAN Configuration

Connected Type:	LTE PDN
IP Address:	
Subnet Mask:	
Default Gateway:	
DNS Server:	

LAN Configuration

LAN IP Address:	192.168.0.1
Subnet Netmask:	255.255.255.0
MAC Address:	6C:AD:EF:FF:D7:A3

LAN Configuration

Operation Mode LAN Networking VPN Client List

LAN Networking

LAN Setup

IP Address:	192	168	0	1
Subnet Mask:	255	255	255	0
MAC Address:	6C:AD:EF:FF:D7:A3			

DHCP Configuration

DHCP Type:	Server ▾			
Start IP Address:	192	168	0	2
End IP Address:	192	168	0	10
Subnet Mask:	255	255	255	0
Lease Time:	1440	(Minutes: 1 ~ 4320)		

Statically Assigned

IP Address	MAC Address

Apply Cancel

The LAN setting allows user to specify the DHCP server setting for the LAN devices including the pool address, IP and MAC binding and whether DHCP server should be enabled.

User is advised to leave the default setting unchanged for quick configuration and smooth device operation.

Maintenance

General Setting NTP Setting Maintenance Ping

Maintenance

— Firmware Upgrade over HTTP —

Location: No file chosen

— Load Factory Default —

Load Factory Default: (Device Will Reboot)

Firmware Upgrade over HTTP:

Click on the Browser button to select the firmware file to be uploaded to the device.

Click the Upgrade button to begin the upgrade process. Upgrade must not be interrupted.

Load Factory Defaults:

This will restore the device to original factory setting. User may need to reconfigure the device in order to get the device operational.

Device Reset

In case the user forget the login password, a reset password can be obtain from the operator by given the device MAC address. The user can enter the reset password in the login window and a system reset will be performed and the unit will be rebooted. The user can then be allowed to use the original default login password to gain access to the unit WEB GUI again.

After factory reset, the device may need to be reconfigured by the user or even operator to gain network access. This is not a recommended operation and special care must be taken to ensure the device will be properly re-configured after factory reset.

Warning and Notice

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 80cm between the radiator & your body.

To the Owner

- It is recommended to assemble the Device on a fix location, please consult manufacture before change location of usage.
- Some electronic devices are susceptible to electromagnetic interference sent by your device if inadequately shielded, such as the electronic system of vehicles. Please consult the manufacturer of your device before using if necessary.
- Operating your device may interfere with medical devices like hearing aids and pacemakers. Please always keep them more than 80 centimeters away from such medical devices when they are turned on. Turn your device off if necessary. Consult a physician or the manufacturer of the medical device before using your device.
- Be aware of the usage limitation when using your device at places such as oil warehouses or chemical factories, where there are explosive gases or explosive products being processed. Turn off your device if required.
- The use of electronic transmitting devices is forbidden in aircrafts, at petrol stations and in hospitals. Please observe and obey all warning signs and switch off your device in these conditions.
- Do not touch the inner antenna area if not necessary. Otherwise it will affect your device's performance.
- Store your device out of the reach of little children. Your device may cause injury if used as a toy.
- Do not touch the metallic parts of your device so as to avoid a burn, when your device is working.

Using Your Device

- Please use original accessories or accessories that are authorized. Using any unauthorized accessories may affect your device's performance, and violate related national regulations about telecom terminals.
- Avoid using your device near or inside metallic structures or establishments that can emit electromagnetic waves. Otherwise it may influence signal reception.
- Your device is not waterproof. Please keep it dry and store in a shady and cool place.
- Do not use your device immediately after a sudden temperature change. In such case, it will produce dew inside and outside your device, so don't use it until it becomes dry.
- Handle your device carefully. Do not drop, bend or strike it. Otherwise your device will be damaged.
- No dismantling by non-professionals and only qualified technicians can undertake repair work.
- Operating temperature range of 0°C ~ +35°C and humidity range of 5% ~ 95% are recommended.

Limited Warranty

- This warranty does not apply to defects or errors in the Product caused by:

- Reasonable abrasion.
- End User's failure to follow ZTE's installation, operation or maintenance instructions or procedures.
- End User's mishandling, misuse, negligence, or improper installation, disassembly, storage, servicing or operation of the Product.
- Modifications or repairs not made by ZTE or a ZTE-certified individual.
- Power failures, surges, fire, flood, accidents, actions of third parties or other events outside ZTE's reasonable control.
- Usage of third-party products, or usage in conjunction with third-party products provided that such defects are due to the combined usage.
- Any other cause beyond the range of normal usage intended for the Product.

End User shall have no right to reject or return the Product, or receive a refund for the Product from ZTE under the above-mentioned situations.

- This warranty is End User's sole remedy and ZTE's sole liability for defective or nonconforming items, and is in lieu of all other warranties, expressed, implied or statutory, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, unless otherwise required under the mandatory provisions of the law.

Limitation of Liability

- ZTE shall not be liable for any loss of profits or indirect, special, incidental or consequential damages resulting from or arising out of or in connection with using of this product, whether or not ZTE had been advised, knew or should have known of the possibility of such damages, including, but not limited to lost profits, interruption of business, cost of capital, cost of substitute facilities or product, or any downtime cost.

FAQ and Troubleshooting

Problem	Suggested Solution
My PC cannot connect to the CPE.	• Re-plug the PC Ethernet cable and check if the PC LAN connection is up or showing activity. • Check if the 12V DC power adapter is working. If it is not, check the power cord and make sure it is connected properly. Also verify that the AC power supply is available. • If the PC LAN shows no activity and CPE Power LED is off but the power cord and ETH cable are connected properly and there is AC supply, then it is likely the Power adapter is damaged. Please contact distributor to obtain replacement part.
My PC cannot acquire IP from the CPE.	• First check if the NIC is up and working properly. Then check the PC NIC configuration and make sure the DHCP is enabled.

	• Open the MS-DOS window, enter “ipconfig /release” and “ipconfig /renew” commands and see if PC can obtain IP correctly. • If the problem persists, please contact the operator or distributor for further diagnose.
My CPE networking is not working properly.	• You may want to check if the LTE connection is up and running properly. You can do this by login the WEB GUI and check the Interface Info page. • You may want to perform a factory reset and see if the problem is being corrected. You can do this by log into the WEB GUI using “user” password and perform restore the unit to default factory setting. • If the problem cannot be corrected by factory reset, please contact the operator or distributor for further diagnose.
I forget the login password and like to reset the unit to factory default.	• User can hold the RESET button on the reverse side of CPE for 6 seconds to clear and reset the unit to factory default setting. • User can also contact the operator or distributor and give them the MAC address of the unit. The operator or distributor can issue you a RESET password to reset the unit to default. • After the unit is reset to factory default, you can login using the default password.

For more assistance, please:

- Send E-mail to **mobile@zte.com.cn**
- Visit <http://www.ztedevice.com>
- Call Service Hotline: **+86-755-26779999**