ZTE MF29A Wireless Router User Guide



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Getting Started

The router operates on the HSUPA+/HSUPA/HSDPA/WCDMA networks and GSM/ GPRS/EDGE networks and supports voice and data service.

Appearance



Indicators

Indicator	State	Description	
1 WAN signal strength indi- cation	On	Signal strength is very good or good (RSSI >= -90dBm)	
	Blinking	Signal strength is weak (-100dBm < RSSI < -90dBm)	
	Off	No signal	
2 Network	Blue	Registered to 3G network	
mode indica- tion	Red	Registered to 2G network	
	Off	Not Registered	
	On	WAN connection established (PDP activated)	
3 WAN con-	Blinking	WAN connection establishing (PDP activating)	
indication	Off	WAN connection not established (PDP not activated)	
	Off	PSTN not connected	
4 Phone sta-	Blinking	Calling via PSTN	
tus indication	On	PSTN connected	
	Off	Local phone hang up	
5 Phone sta- tus indication	Blinking	Phone picked up, ringing or network CS regis- tering	
	On	In calling	

Indicator	State	Description	
6 Wi-Fi	Off	WLAN shut down	
indication	Blinking	WLAN working normally with data transmission	
7 Power indication	On	External power supply working normally.	
	Off	External power supply disconnected or pow- ered off.	

Interface Description

1. Phone	Standard RJ11 connector for Telephone
2. PSTN	Standard RJ11 connector for PSTN
3. WAN/LAN	Ethernet connector to Internet
4. LAN1~LAN3	Ethernet connector to computer
5. Reset	Reset button
6. POWER	Connector to the external newer supply
Socket	Connector to the external power supply.
7. ON/OFF	Turn the router ON or OFF.
8. ANT	Connector to external antenna
9. PRESS ANT ON	This button is only used for external antenna. If you connect the external antenna, please press it. Otherwise the RSSI signal of the router will be poor, and your device may not access the Internet.

Connecting Your Device

Follow the number to connect your device.

NOTE: If you want to use the mobile network to go to Internet, you need to insert your SIM card first.



Switching on Your Device

1. Turn the power switch on to get started. Make sure that the phone is on hook before you power it on.

NOTE: Do not put anything on the top of the router. Do not lay routers to overlap each other during usage.

 Wait 1~2 minutes after turning the router on before you use the service. The 3G & POWER indicator should be lit on.

NOTES:

- When the router is turned off, an incoming caller will hear the prompt like "The number you have dialed is currently unavailable,"
- If the 3G LED is blinking constantly, try to move the router to another location. The router takes 1~2 minutes to initialize, attach to the network and obtain an IP address.

Power Supply

For normal operation, connect the router to the external power adapter. In case of power failure or when there is no available external power supply, the router will not work.

About (U)SIM Card

Avoid handling the (U)SIM card unnecessarily. Hold the card by the edges to prevent static damage. Keep the (U)SIM card away from electrical and magnetic appliances.

If you cannot get service, make sure that

- You are in an area which has network coverage.
- You are using the correct (U)SIM card.

Internet Access

Configuring Your PC

Follow the following steps and figures for Windows XP to configure the Internet Protocol for your connection.

NOTES:

- Wireless Network Connection is used for Wi-Fi connection.
- Local Area Connection is used for Network Cable connection.
- 1. Right-click My Network Places, and then select Properties.



2. Right-click the icon for Connection, and then select Properties.

Dévaile Status Répair El lige Connections	Tamity	Disable View Av Repair Bridge Co	ellable Wireless Networks
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Propert eo		Prope de	£

3. Select Internet Protocol(TCP/IP), and then click Properties.

🕹 Lacol Ana Connector Properties 👘 🔯	👍 dia tee Halvard Jacord as Pegerles 👘 🦷 😰
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Correctuary	Par -tuar
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UK Cares	27 Decel

4. Select these two items, and then click **OK** to finish the configuration.

Internet Protocol (DCP/IP) At	nsette. 🗎 🔟 🛛
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	volumed.
	TS Dave

Wireless Connection (Optional)

If you want to use Wi-Fi to connect your router, please refer to the following steps.

 Make sure that the WLAN works normal. Please check the Wi-Fi Setting on the WebGUI Configuration page or check the Wi-Fi indicator ().

Wireless Network			
Wi-Fi On/Off	Enable O Disable		
Network Mode	11b/g/n Mixed Mode 🗸		
Network Name(SSID)	Cellcom_Router		
Broadcast Network Name (SSID)	 Enable O Disable 		
AP Isolation	O Enable 💿 Disable		
BSSID	84:74:2A:F6:38:C3		
Frequency (Channel)	AutoSelect 💌		

 Use your normal Wi-Fi application on the client to search for the available wireless networks.

3	Mireless Network Connection Disable
	View Available Wireless Networks
	Status
	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
	Properties

NOTE: Please set the client to obtain an IP address automatically, and the client will get an IP address like "192.168.0.100".

3. Select the SSID of your device, and then click Connect.



4. Input the password, and then click Connect.



NOTE: There may require the password for Wi-Fi connection. Please check the label on your device to get the default.

5. Wait a moment, and then the client will connect to your device successfully.



Accessing the Internet

Before accessing the Internet, please make sure:

- · Your device is connected via network cable or Wi-Fi.
- Your PC is configured.
- 1. Login the WebGUI Configuration Page.
- 2. Select the **Operation Mode**.



NOTE:

If you select the Bridge mode, you need to connect your clients to the LAN ports via Ethernet cable, and use normal methods to surf directly on your clients. If you want to use other operation mode after Bridge, you need to restore your device.

3. Configure the WAN Connection. (Optional)

NOTE: This step is used for Cable Broadband mode and 3G/4G Gateway mode.

- For Cable Broadband
- ▶ Please select **PPPoE**, and input the User Name and Password.

NOTE: Your service provider gives you the User Name and Password.

WAN Setting	
WAN Mode	PPPoE 🗸
PPPoE	
User Name	poeuser
Password	••••••
0	Auto Connect
۲	Manual Connect Internet
WAN Connection Status	Disconnected
Apply	

▶ Please select **Static** and input all the parameters.

NOTE: Your service provider gives you the static address information.

WAN Setting	
WAN Mode	Static 🗸
Static	
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
Apply	

Please select DHCP.

NOTE: Your service provider does not give you any parameters.

CP 💌

• For 3G Gateway

WAN Connection Mode			
0	Auto Connect		
۲	Manual Connect	Connect Internet	*
WAN Connection Status	Disconnected		
Apply			

4. Begin to enjoy your Internet service.

Voice

Making a Call

You have two ways to make a call:

- Through (U)SIM card.
- Through PSTN.

To make a call:

- 1. Pick up the handset.
- 2. Key in the telephone number.
- 3. You can either press # key on the telephone to send the call, or wait 4~8 seconds for the call to be connected automatically.
- 4. The call will be connected.

NOTE: If there is no 3G indication, the RF signal is unavailable. Change the location of the router and make sure nothing is blocking it.

Answering a Call

When the phone rings, pick up the handset to answer it. If the telephone has hands-free function you also can answer the call by pressing the **Hands-free** button. Press the **Hands-free** button again to end the call.

WebGUI Configuration

Accessing the Configuration Page

- 1. Make sure the connection between your device and the client is correct.
- 2. Launch the Internet browser and enter http://192.168.0.1 in the address bar.

NOTE: It is recommended that you use IE (6.0 or later), Firefox (2.0 or later), Opera (10.0 or later), Safari (4.0 or later) or Chrome (5.0 or later).

3. The login page appears as follows.



Login

In the WebGUI Configuration page, select the desired language and input the password (the default Password is **admin**).

Click Login to log in the device.

NOTE: If you check **Save** after type in password, the device will save it. Next time when you want to login the device with the same password, what you need to do is click **Login**.

When you login, the following interface appears.



The whole interface is divided into three parts. Related functions can be executed by operation in the related areas.

- Index area: Show the configuration list for your device.
- Content area: Show the detailed configuration.
- System Information Area: Show the system status and different kinds of tips.

SMS

This function allows you to send or receive short messages. And you can use this function only in 3G Gateway mode. You need to login the WebGUI configuration page first.

Sending SMS

1. Select SMS > New Message to access the following figure:

Send	Save Reset		PhoneNumber
EW Message			Fifthn
то			
		~	
Content			
		··· (0/160)	

- 2. Enter the recipient's phone number.
- 3. Enter a message.
- 4. Click **Send** to send the message.

Reading SMS

1. Select SMS > SIM/Device > Inbox to access the following figure:

View 1	Reply Forward	Delete Delete All		
Inbox	SMS Storage Status4/100			
No	PhoneNumber	Date/Time	Status	Operations
1	10016	2012-09-17 10:09:37	Unread	0
2	12121	2012-09-16 21:32:49	Unread	C
3	12121	2012-09-16 22:11:19	Unread	0
4	12121	2012-09-17 00:38:14	Unread	0

- 2. Select the SMS in the list.
- 3. Click View to read this SMS.

TIP:

The following table shows you the other operations.

Reply	Reply to the selected message sender	
Forward	Forward message to other person	
Delete	Delete the selected message	
Delete	All Delete all the messages	

Settings

Do not modify any settings unless instructed by your service provider.

Please disconnect the device from the network before changing the settings.

3G Settings

Band Select

Select **Settings > 3G Settings > Band Select** and the Band Selection Mode is shown in the following figure:

Band Selection Mode				
Registration Mode	Automatic O Manual			
۲	Automatic			
0	3G Only (All Bands)			
0	2G Only (All Bands)			
Apply				

- Automatic: Device searches for available network.
- 3G Only (All Bands): Device searches for WCDMA network only.
- 2G Only (All Bands): Device searches for GSM network only.

Click **Apply** to confirm your configuration.

Wi-Fi Settings

Station list

Select **Settings > Wi-Fi Setting > Station List**, the wireless network stations are shown in the following figure:

Wireless Network					
Station	MAC Address	IP Address	Host Name		

Basic

Select **Settings > Wi-Fi Setting > Basic**, the wireless network basic parameters are shown in the following figure:

Wireless Network	
Wi-Fi On/Off	€ Enable ○ Disable
Network Mode	11b/g/n Mixed Mode
Network Name(SSID)	Cellcom_Router
Broadcast Network Name (SSID)	Enable O Disable
AP Isolation	O Enable 💿 Disable
BSSID	84:74:2A:F6:38:C3
Frequency (Channel)	AutoSelect 💌
Wireless Distribution System(WDS)	
Wireless Distribution System(WDS)	
WDS Mode	Disable
HT Physical Mode	
Operating Mode	Mixed Mode O Green Field
Channel BandWidth	○ 20 ④ 20/40
Guard Interval	O long 💿 Auto
MCS	Auto 🗸
Reverse Direction Grant(RDG)	O Disable 💿 Enable
Aggregation MSDU(A-MSDU)	Oisable O Enable
Auto Block ACK	O Disable 💿 Enable
Decline BA Request	Oisable O Enable
Apply Cancel	

- Wi-Fi On/Off: Enable or disable Wi-Fi.
- Network Mode: If all of the wireless devices connect with this router in the same transmission mode, performance will be improved by choosing the appropriate wireless mode.
- **Network Name(SSID)**: Service Set Identifier (SSID). Enter a string less than 32 characters as the name for your wireless local area network (WLAN).
- Broadcast Network Name(SSID): Disable or Enable (Default) this function. If Enable is selected, the router broadcasts the SSID, and other devices can detect and connect to it. If Disable is selected, the other devices cannot detect the router. You can only connect to the router by manual setting.
- AP Isolation: When Enabled is selected, each of your wireless clients will not be able to communicate with each other. When Disable is selected, each of your wireless clients will be able to communicate with each other.
- BSSID: MAC address of the Wi-Fi.
- **Frequency(Channel)**: Choose the appropriate channel to optimize the performance and coverage of your wireless network.
- **WDS Mode**: WDS mode make the router to communicate with other APs, WDS connection is two-way communication, APs should know each other's wireless MAC address. And make sure that all APs share the same SSID and channel.

WDS configuration is shown below:

Step	Description
1.Set the SSID and the	It is strongly recommended to manually set the SSID
same channel for APs	and the same channel.

Step	Description
	If you select Disable , WDS is disabled.
	If you select Lazy Mode, WDS is enabled, and set
	wireless MAC address only on the peer APs.
2 Select WDS mode	If you select Bridge Mode, WDS is enabled, and set
Disable Lazy Mode	the peer APs wireless MAC address on router. When
Bridge Mode or Re-	you set Bridge Mode, your PC can not search for
neater Mode	SSID of AP after connected.
	If you select Repeater Mode , WDS is enabled, and set
	the peer APs wireless MAC address on router. When
	you set Repeater Mode , your PC can search for SSID
	of AP after connected.
3 Select Phy mode	ССК : 802.11b
CCK OFDM HTMIX or	OFDM : 802.11g
GREENEIELD	HTMIX: 802.11b/g/n Mixed Mode
	GREENFIELD: 802.11b/g Mixed Mode
	If you select NONE, all the data transmitted without
4 Soloct Encrypt Type:	encryption, and other station can access router.
	If you select the Encrypt Type, you should set all APs
	the same Encrypt type and password to make the data
	transfer.
5.Set peer AP's wireless	Only Pepeater Mode and Bridge Mode need this
MAC address on router	Only Repeater mode and Bridge mode need this.

The HT physical Mode parameters are shown below:

- Operating Mode: In Mixed Mode, packets are transmitted with a preamble compatible with the legacy 802.11a/g, the rest of the packet has a new format. In Green Field, high throughput packets are transmitted without a legacy compatible part.
- Channel Bandwidth: Set the HT physical channel bandwidth.
- **Guard Interval**: Guard interval is to introduce immunity to propagation delays, echoes and reflections, to which digital data is normally very sensitive.
- **MCS**: The Modulation and Coding Scheme (MCS) is a value that determines the modulation, coding and number of spatial channels.
- Reverse Direction Grant(RDG): Enable RDG or not.
- Extension Channel: Set extension channel. Extension channel is also able to send and receive data.
- Aggregation MSDU(A-MSDU): To enable Hyper Throughput TX Aggregate MAC Service Data Unit, select Enable.
- Auto Block ACK: Select to block ACK (Acknowledge Number) or not during data transferring. When you enable the WDS function, you should set to enable Auto block ACK to prevent the other effect during data transferring.
- Decline BA Request: Select to reject peer BA-Request or not.

Click **Apply** to confirm your configuration.

Advanced

Select **Wi-Fi Setting > Advanced**, the advanced wireless network parameters are shown in the following figure:

Beacon Interval	100	ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	1	ms (range 1 - 255, default 1)
Fragment Threshold	2346	(range 256 - 2346, default 2346)
RTS Threshold	2347	(range 1 - 2347, default 2347)
TX Power	100	(range 1 - 100, default 100)
Short Preamble	O Enable 💿 Disable	
Short Slot	● Enable ○ Disable	
Tx Burst	● Enable ○ Disable	
Pkt_Aggregate	● Enable ○ Disable	
Country/Area Code	IL (Israel)	*
Wi-Fi Multimedia		
WMM Capable		
APSD Capable	O Enable 💿 Disable	

- Beacon Interval: The router broadcasts beacon message to announce that it has buffered frames to deliver. The default value is 100 (ms).Beacons are packets sent by an access point to synchronize a wireless network. It is recommended to specify a beacon interval value.
- Data Beacon Rate(DTIM): A Delivery Traffic Indication Message(DTIM) informs next clients to listen to broadcast and multicast messages.

- Fragment Threshold: This value should remain at its default value of 2346. If you experience a high packet error rate, you may slightly increase your fragment threshold. Setting the fragment threshold too low may result in poor performance.
- **RTS Threshold**: Request To Send (RTS) threshold should be remained as the value of 2347. If you encounter inconsistent data flow, only minor modifications are recommended.
- **TX Power**: Transmit power should be remained as the value of 100.
- **Short Preamble**: The length of CRC block in the frames during the wireless communication.
- Shot Slot: To indicate that 802.11g is using a shot time slot because there is no legacy station(802.11b) present.
- **Tx Burst**: Tx burst allows router to deliver better throughput in the same period and environment in order to increase speed.
- Pkt_Aggregate: Increase efficiency by aggregating multiple application packets data into a single transmission frame. In this way, 802.11n networks can send multiple data packets with the fixed overhead cost in just a single frame.

Country Code: Select the region you live.

The Wi-Fi multimedia parameters are shown below:

- **WMM Capable**: When multimedia contents are transferred over wireless network, this function enhances data transfer performance.
- APSD Capable: Automatic Power Save Delivery (APSD), enable or disable data flow using APSD during transmitting for power saving.

Click **Apply** to confirm your configuration.

Security

Select **Wi-Fi Setting > Security**, the Security parameters are shown in the following figure:

Security Policy	
Security Mode	NO ENCRYPTION
Wireless MAC Filtering	
Add MAC Filtering Rule	Wireless Disable
Apply Cancel	

Unless the encryption mode is selected, wireless transmissions to and from your wireless network can be easily intercepted and interpreted by unauthorized users.

- WPA-PSK/WPA2-PSK: Apply both the WPA-PSK and WPA2-PSK scheme.
- WPA Algorithm: TKIP, AES or AUTO.
- **Pass phrase**: You can input hexadecimal digits up to 64 characters or input ASCII characters choose a length of 63 characters or less.
- Key Renewal Interval: Define how long the key should be renewed.

You can set Wireless MAC Filtering:

	Wireless Dis-	If disabled, MAC address is not used to	
Add MAC Eiltoring	able	control network access.	
Rula	Wireless Allow	Set the MAC address that is allowed to	
Rule	wireless Allow	access network.	
	Wireless Deject	Set the MAC address that is not allowed	
	wireless Reject	to access network.	
MAC Address		Enter Mac Address	

Click **Apply** to confirm your configuration.

WPS

Select **Wi-Fi Setting > WPS** and the WPS configuration is shown in the following figure:

WPS Config		
WPS	Disable	*
Apply		

Select **Enable**, click **Apply** and the WPS settings are shown in the following figure:

WPB	Enable 💌
Apply	
WP5 Progress	
WPS Progress	@ PIN O PBC

To set WPS, select WPS mode, the two modes are described below:

- **PIN**: Set the client's PIN code in **Client PIN** field.
- **PBC**: Press the WPS button of the router or select PBC, and then click **Apply**. Press the WPS button on the client wireless adapter within two minutes, and the negotiation process will be established.

Firewall

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

NOTE: You can set the maximum 10 filtering items for MAC/IP/Port Filtering, URL

Filtering and Port Forwarding.

MAC/IP/Port Filtering

Select **Settings > Firewall > Mac/IP/Port Filtering**, the Mac/IP/Port Filtering is shown in the following figure:



If you select Enable, the filter settings will appear:

MACAPIPort Fillening	E	nable 🕶					
EctaultHoney The packet that deepn't match 7 any niles social the	ath 🖸	rooped 💌					
ADU							
AC/IP/Port Tilter Settings							
MAD address				DOX 28-30	1900 XICON, 40103	P 30 FF FF -=	7
East P Address	E		_	0018 830	CXXX.3001 #3192	158.5.101)	
Source IF Address	E						
Protocol	1	ure	*				
East-of-Range	E		_			(1~55535	
Source Port Range	Г		-	-		(1-55535	
Action	A	coept	-				
Comment	Ē		-				
no maximum rate caunt is 10.							
AND BANK							
Corrent MAC/IP/Port Filering rules in system							
No. NAC Deal P :	Source IP Address	Protocol	Desl Rur	Pet	Cource Perl Range	Action	Commen

- Default Policy: Set how to handle the packet if none of the rules matches.
- **MAC address**: Set the MAC address that will be filtered.
- Dest IP Address: Set the destination IP address that will be filtered.
- Source IP Address: Set the source IP address that will be filtered.
- **Protocol**: Set which protocol will be used for filtering.
- · Dest Port Range: Set the destination port numbers that will be filtered
- Source Port Range: Set the source port numbers that will be filtered.
- Action: Set how to handle the packet if it matches with the rule.

• Comment: Type comment for the filter settings.

NOTE: Filtering rules are matched one by one, if met this provision, it will not continue to match the rules listed below.

Click **Apply** to confirm your configuration.

Click **Delete Selected** to delete the rule which you selected.

Click **Reset** to clear what you select or input.

To add a new rule:

- 1. Select Enable in the Basic Settings area.
- 2. Click Apply.
- 3. Input the detail information in the Mac/IP/Port Filtering area.
- 4. Click Apply in the Mac/IP/Port Filtering area.

URL Filtering

You can setup content filter to restrict the improper content access. Select Firewall

> URL Filtering, the URL Filtering is shown in the following figure:

ini -	(ep www.deromo
e medimum sue rauntils 10	
Aut	
anen und Hierige	

Type URL address, and then click **Add** to add the URL address into the filtering list. The new URL filtering item will be shown in the **Current Webs URL Filters**: field.

Port Forwarding

You can setup virtual servers to provide services on the Internet. Select **Firewall > Port Forwarding**, the virtual server settings is shown in the following figure:

Virtual Server Settings		
Virtual Server Setting:	Disphie	~
Apply		

If you select Enable, the Virtual Server Settings will appear:

Virtual Server Sea	121			
A THE SHOAT OF	101 101	1		
WARRAN .		(COMPONE)	1. 10 10 10 10 10 10 10 10 10 10 10 10 10	
Tot Targe			11-895281	
etterins		19		
Dancer .				
	states fit			
- nev				
Convertificated Sec	un desysteme			
Her	P & Sheet	Callense	Present	Cannel
CONTRACT OF	HEAT			

- IP Address: Set IP address for the virtual server.
- Port Range: Set port numbers for the virtual server.
- **Protocol**: Set protocol for the virtual server.

• Comment: Type comment for the virtual server settings.

Click **Apply** to confirm your configuration.

DMZ

You can set up a De-militarized Zone(DMZ) to separate internal network with the Internet. Select **Firewall > DMZ**, the DMZ setting is shown in the following figure:

DNZ Settings Disable	~

If you select **Enable**, set the **DMZ IP Address**, and then click **Apply** to confirm your configuration.

wither the second second	1 matrix	194
VZTP Address	1	THER MEN HER MEN WITH WITH S 1884

System Security

You can configure system firewall to protect AP or router from being attacking. Select **Firewall > System Security**, the system security setting is shown in the following figure:

Rempte management (via WAN)	Deny	~
Ping from WAN Filter		
Ping from WAN Fill or	Deny	

Allow or **Deny** the remote management function, **Allow** or **Deny** ping from WAN filter on requirement, and then click **Apply**.

Advanced

Management

Select **Settings > Advanced > Management**, the administrator settings information is shown in the following figure:

Rummisu etci setungs		
Current Password		
New Pace word		
Verity Password		

You can change the administrator's password. Click **Apply** to confirm your configuration.

Restore

Select **Settings > Advanced > Restore**, click Restore to set all the settings to their factory default values, and then the device will restart automatically.



PIN Manage

NOTE: Pin Manage can be used in 3G Gateway mode.

Select **Settings > Advanced > PIN Manage**, the PIN manage is shown in the following figure:

PiN Status	Finnain	
Aciun	Disable	
PIN		
	Remaining times	0

If you select **Modify**, the modification parameters are shown in the following figure:

Filly Status	Enable
Adlbh	Mod N
EIN	
NewHite	
Continue New Hist	
	Remaining limes 5

Type the old PIN code, and then type two times the new PIN code. Click **Apply** to confirm your configuration.

NOTE: Three times consecutive wrong PIN code entries will block the (U)SIM card. To unlock it, you need the PUK code. The PIN code and PUK code may be offered together with the (U)SIM Card. If not, please contact with network operator.

Router

NOTE: Router can be used in 3G Gateway mode and Cable Broadband mode. Select **Settings > Advanced > Router**, the router information is shown in the following figure:

Address-	182 181 0-1		
a la set la set	2nn 2nn 2nn 0		
AC andress	FATAPARTITIK		
DEDDP 1 werzen	1 methe		
HOP IP Fool	102.165.0.100		192 58 0.200
CHOP Leave Time	24	_	10,190
FRIP	Disable		

- IP Address: IP address for LAN interface.
- Subnet Mask: Subnet mask for the IP address.
- MAC Address: MAC address for the LAN interface.
- **DHCP Server**: Enable or disable DHCP Server function.
- **DHCP IP Pool**: Allocate begin and end IP address for IP pool.
- DHCP Lease Time: Define how long the leased IP address will be expired, and will relocate new IP address.
- **UPNP**: Enable or disable UPNP function.

Click **Apply** to confirm your configuration.

Upgrade

Select **Settings > Advanced > Upgrade** to upgrade the software version of the router.

Upgrade Firmware	
Location	Browse
Upgrade	

Click **Browse...**, locate the latest software version, and then click **Upgrade**. **Time & Date**

Select Settings > Advanced > Time & Date to set the time of the router.

Jurrent Local Time	2012-11-14 15:54:45	wednesda
ime Set Mode	Britp auto Synchroniz	at 🛩
SNTP Server1	time windows com	**
SMTP Scever2	Time niv hist gov	~
NTP ServerS	ch.pool.nta.org	*
ime Zone	GMT+08:00	*
ayight Saving Time	disat e	~

Configuration

Select Settings > Advanced > Configuration to access the following interface:



DHCP List

Select Settings > Advanced > DHCP List to access the following interface:

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101-1-1		
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Status

Basic Status

Select Status > Basic Status to show the 3G information and system information.



Click Refresh to update the information.

Network Status

Select Status > Network Status to show the WAN and WLAN related information.

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Warning and Notice

Safety Precautions

- Some electronic devices may be susceptible to electromagnetic interference. Locate the router away from TV set, radio and other electronic equipment to avoid electromagnetic interference.
- The router may interfere with medical devices like hearing aids and pacemakers. Consult a physician or the manufacturer of the medical device before using the router.
- Please keep yourself at least 20 centimeters away from router.
- Do not use your router in dangerous environments such as oil terminals or chemical factories where there are explosive gases or explosive products being processed.
- Please use original accessories or accessories that are authorized by ZTE. Unauthorized accessories may affect the router performance, damage the router or cause danger to you.
- Do not attempt to dismantle the router. There are no user serviceable parts.
- Do not allow the router or accessories to come into contact with liquid or moisture at any time. Do not immerse the router in any liquid.
- Do not place objects on top of the router. This may lead to overheating of the device.
- The device must be placed in ventilation environment for use.
- Do not expose the router to direct sunlight or store it in hot areas. High temperature can shorten the life of electronic devices.

- Do not allow children to play with the router or charger.
- Keep the length of the cable between the router and the phone less than 10 meters.
- The router is for indoor use only. Do not use the router outside. Do not connect telephone extensions which run outside of the building. These can result in lightning damage to your unit.

Cleaning and Maintaining

- Use an antistatic cloth to clean the router. Do not use chemical or abrasive cleanser as these could damage the plastic case. Turn off your router before you clean it.
- Use the router within the temperature range of -10°C ~ +55°C , and the storage temperature range is -20°C ~ +65°C . The humidity range is 5%~95%.
- Do not use your router during a thunderstorm. Remove the mains power pack from the wall socket.
- Do not take out your (U)SIM card unnecessarily. The (U)SIM card may be easily lost or it can be damaged by static electricity.

Limited Warranty

- This warranty does not apply to defects or errors in the Product caused by:
 - i. Reasonable abrasion.
 - ii. End User's failure to follow ZTE's installation, operation or maintenance instructions or procedures.
 - iii. End User's mishandling, misuse, negligence, or improper installation, disassembly, storage, servicing or operation of the Product.

- iv. Modifications or repairs not made by ZTE or a ZTE-certified individual.
- v. Power failures, surges, fire, flood, accidents, actions of third parties or other events outside ZTE's reasonable control.
- vi. Usage of third-party products, or usage in conjunction with third-party products provided that such defects are due to the combined usage.
- vii. 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.

Radio Frequency (RF) Energy(Only for America)

This model device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government:

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the position required to reach the network. In general, the closer you are to a wireless base station, the lower the power output.

The highest SAR value for the model device as reported to the FCC when worn on the body, as described in this user guide, is 1.17 W/kg (Body-worn measurements differ among device models, depending upon available enhancements and FCC requirements.)

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea/fccid/ after searching on

FCC ID: Q78-ZTEMF29A.

FCC Compliance(Only for America)

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.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: 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 or more 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.

Disposal of Your Old Appliance



When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/ EC.

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

For this product's recycling information based on WEEE directive, please send an e-mail to weee@zte.com.cn

Troubleshooting

Voice Related Problems

Symptoms	Possible Problems/ Solutions
No Dial Tone.	 Please wait for 1~2 minutes after the router is turned on. If 3G LED light is blinking, you have no good RF reception. Change the location of the router.
There is a prompt/ phone alert/ announcement as soon as I lift the phone off the hook.	Make sure your (U)SIM card is inserted correctly and the PIN number has been entered. If the PIN number has been entered incorrectly then you will need to enter the PUK code when prompted.
The line is noisy/ distorted when I lift the phone off the hook.	Remove any electrical appliance which is too close to the phone or router.The cable or phone set might be faulty.
I hear a rapid engaged tone as soon as I lift the phone off the hook.	Put the phone on hook and try again. If you are con- nected to the Internet using the 2G (GSM) network, please disconnect this first.
After dialing the last digit I hear nothing /silence.	When you have finished dialing you can press the # key or wait 4-8 seconds to connect the call.
Can not make or receive a call when surfing on the Internet.	If you are connected using the 2G (GSM) network then you cannot surf the net and make a phone call simul- taneously. Please disconnect the internet and wait 30 seconds to 1 minute before making a call.

Internet Related Problems

Symptoms	Possible Problems/ Solutions
Can not access the Inter- net at all.	 Please check your configuration settings. Please wait 1~2 minutes for the router to initialize. Check your service indicator LED's.
The download or upload speeds are very slow.	The speed is dependent on signal strength. Check your signal strength and network type.
Can not visit the webGUI configuration page	 Enter the correct address. The default address is http://192.168.0.1 or http://ufi.home. Only use one network adapter in your PC. Do not use any proxy server.
Can not establish the Wi- Fi connection between your device and client	 Make sure the Wi-Fi function is active. Press the WPS button to enable Wi-Fi function. Refresh network list and select the correct SSID. Check the IP address to make sure your client can obtain an IP address automatically in the Internet protocol (TCP/IP) properties. Type the correct network key (Wi-Fi password) when you connect to the device.

Others

Symptoms	Possible Problems/ Solutions
The RSSI signal indicator is always blinking or does not light.	 This indicates poor reception. Try moving the router to another location near the window. Check the ANT button to see if you have press the ANT on but without connecting the external antenna.
About the password	 For the Wi-Fi connection password, please check the label on the device. The default password of the webGUI configuration page is admin. If you changed the password and forgot the new password, you need to restore the device to the factory default settings.

For more assistance, please:

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

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ZTE CORPORATION

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