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ZTE Z291DL is a 4G LTE mobile hotspot device, working on the LTE network. You can connect your devices to it via Wi-Fi®. The device supports data services, enabling you to communicate anytime and anywhere.

The following figure shows the appearance of the device. It is only for your reference. The actual device may be different.
Getting Started

ON/OFF Switch
Slide the switch to turn the hotspot on or off.

WPS Button
• Press to wake up the device when the hotspot is in sleep mode.
• When Wi-Fi is enabled on the hotspot, press and hold for three seconds to activate the WPS function.

LED Indicators
View colored icons for information about battery, signal strength, Wi-Fi, and messages.

micro-SIM Card Slot
Install the micro-SIM Card.

Charging/Micro USB Port
Charge your hotspot.

---

Indicators
When the device is powered on, the following icons will light up on the surface of the device. The corresponding indicators are listed in the tables below.

<table>
<thead>
<tr>
<th>ICON</th>
<th>STATUS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red solid</td>
<td>Limited or no service, no SIM card, SIM card error, or SIM card locked.</td>
<td></td>
</tr>
<tr>
<td>Red blinking</td>
<td>Activation failed.</td>
<td></td>
</tr>
<tr>
<td>Green solid</td>
<td>Registered to the LTE network.</td>
<td></td>
</tr>
<tr>
<td>Green blinking</td>
<td>Registered and connected to LTE network.</td>
<td></td>
</tr>
<tr>
<td>Blue blinking</td>
<td>FOTA upgrading.</td>
<td></td>
</tr>
<tr>
<td>LED light off</td>
<td>In Power Save/Sleep mode.</td>
<td></td>
</tr>
<tr>
<td>Messages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue solid</td>
<td>You have unread messages.</td>
<td></td>
</tr>
<tr>
<td>Blue blinking</td>
<td>You have new messages or your inbox is full.</td>
<td></td>
</tr>
<tr>
<td>LED light off</td>
<td>No unread messages or no new messages.</td>
<td></td>
</tr>
</tbody>
</table>
## Getting Started

<table>
<thead>
<tr>
<th>ICON</th>
<th>STATUS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wi-Fi</td>
<td>Blue solid</td>
<td>Wi-Fi is on.</td>
</tr>
<tr>
<td></td>
<td>Blue blinking</td>
<td>WPS is active.</td>
</tr>
<tr>
<td></td>
<td>LED light off</td>
<td>Wi-Fi is off.</td>
</tr>
<tr>
<td>Battery</td>
<td>Red solid</td>
<td>The battery is from 0% to 5% (not charging). Please charge the battery.</td>
</tr>
<tr>
<td></td>
<td>Red blinking</td>
<td>The battery is from 0% to 5% (charging).</td>
</tr>
<tr>
<td></td>
<td>Green solid</td>
<td>The battery level is medium or high (charging from 95% to 100%, not charging from 34% to 100%).</td>
</tr>
<tr>
<td></td>
<td>Green blinking</td>
<td>The battery is from 34% to 94% (charging).</td>
</tr>
<tr>
<td></td>
<td>Amber solid</td>
<td>The battery is from 6% to 33% (not charging).</td>
</tr>
<tr>
<td></td>
<td>Amber blinking</td>
<td>The battery is from 6% to 33% (charging).</td>
</tr>
<tr>
<td></td>
<td>LED light off</td>
<td>The battery is not inserted or the device is powered off with no charger connected.</td>
</tr>
</tbody>
</table>

## Connection Scenario

The following picture is an example of device connection. All of these devices can surf the Internet at the same time.

**NOTE:** You can only use Wi-Fi to connect to the Z291DL device. Make sure the devices you wish to connect to the Z291DL device support Wi-Fi.
Setting Up Your Device

About Your micro-SIM Card
The micro-SIM card for your new Z291DL is pre-installed. If you need to replace it, use the instructions below.

Installing the micro-SIM Card
1. Remove the micro-SIM from the outer card, being careful not to touch the gold-colored contacts.

2. Lift the micro-SIM card cover off the card slot as shown.
   NOTE: Pull the cover gently, as it is connected to the device.

3. Insert the micro-SIM card into the card slot until it clicks into place.
   NOTE: Do not bend or scratch your micro-SIM card. Avoid exposing your micro-SIM card to static electricity, water, or dirt.

4. Close the card cover.

Inserting the Battery
1. Remove the back cover.

2. Insert the battery as shown, with the contacts located against the metal springs, and press the battery down into the case.

3. Close the back cover.
### Getting Started

#### Charging Your Device
You can charge your device by using the USB cable or adapter. Please charge your device for more than two hours when you use it the first time or when you haven’t used it for a long time.

- Use the USB cable to connect your device and PC directly.
- Use the adapter and USB cable to connect the wall outlet and your device.

**NOTES:**
- The plug only fits one way to connect your device. Do not use excessive force to insert the plug.
- The charging time varies depending on your battery level. The device will stop charging if the temperature of the battery exceeds 113°F (45°C).

#### Powering On/Off Your Device
Slide the **ON/OFF Switch** to power the device on or off.

#### Sleep Mode
If you enable the Wi-Fi function, use the battery to supply power to the device, and do not connect to the device within the specified time, the device will enter sleep mode. In sleep mode, the Wi-Fi function will be disabled. Press the **WPS Button** to wake up the device and Wi-Fi function.

### Connecting to Your Device

1. Power on your device. Check the Wi-Fi indicator to make sure that Wi-Fi is enabled.
2. Use your normal Wi-Fi application on your computer (or other Wi-Fi enabled device) to search for available wireless networks.

   **NOTE:** You can only use Wi-Fi to connect to the Z291DL. Make sure that the client device supports Wi-Fi.

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

**NOTE:** The SSID (“TF_XXXXXX”) and default password for your Z291DL can be found on the label under the battery.
Getting Started

4. If necessary, enter the default password and click OK.

5. Your computer or other Wi-Fi enabled device will then connect to the Z291DL device.

NOTES:
• It is recommended that the battery be fully charged in order to use your Z291DL via Wi-Fi for the first time, or connect the device to a wall outlet for power.
• Upload and download speeds may vary depending on the number of devices connected to the Z291DL.

Using the WPS

If your computer or other Wi-Fi enabled device supports WPS, you don’t have to input the password manually once your WPS has been set up in your web UI. To set up, follow these steps:

1. Log into the web UI.
2. Select Settings > Wi-Fi Settings > Basic Settings.
3. Press and hold the WPS Button for three seconds to start the Wi-Fi Protected Setup authentication process.
4. To respond to this authentication process, enable the WPS function on the device you wish to connect.
5. Follow the system prompts on your device to finish the connection.
Accessing the Internet

1. Power on the Z291DL device.
2. Connect your computer or other Wi-Fi enabled device to the Z291DL device.
3. After the devices are successfully connected, you can access the Internet automatically.

NOTES:
- Once your Z291DL is powered on and has been activated, it automatically connects to the Internet, provided that mobile broadband service is available and one or more Wi-Fi devices are connected.
- The LED lights on your Z291DL indicate whether service is available and if the device is ready to connect.

Configuring Your Device on the Web

Accessing the Configuration Page

1. You will need to locate your password first. This can be found under the battery cavity. Check the label and make note of the password to continue.
2. Make sure your device is connected to the Z291DL device.
3. Launch the Internet browser and enter http://192.168.1.1 in the address bar.

NOTE: It is recommended that you use Internet Explorer ® (7.0 or later), Firefox ® (15.0 or later), Opera™ (10.0 or later), Safari ® (4.0 or later), or Google™ Chrome™ (10.0 or later).
4. The login page appears as follows. The following is only for your reference.

5. On the login page, input the password and click Login.
Navigating Your Web Interface

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

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

### Battery level
- **Shows the battery level; 4 stages from none to high.**

### Signal strength
- **Shows the network signal intensity; 5 stages from none to strong.**

### Connection status
- **Connected to the Internet.**
- **Disconnected from the Internet.**

### Wi-Fi status
- **Wi-Fi status and number of connected users.**

## Settings

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

### Quick Setup

1. In the main interface, click **Settings > Quick Settings**.
2. Read the guide carefully, and then click **Next**.

![Quick Setup Wizard](image)

3. Set **SSID Configuration** as shown in the following figure:

![SSID Configuration](image)

Service Set Identifier (SSID) is used to uniquely identify your wireless local area network (WLAN). If you enable **Broadcast Network Name (SSID)**, the gateway will broadcast the SSID, and other devices can detect and connect to it.
4. Set **Security Configuration** as shown in the following figure:

Encryption will keep your traffic from being monitored and accessed without authorization. Select an encryption mode from the list, and then set a password for it.

5. The configuration will look as shown in the following figure:

Make sure that all the parameters shown in the figure are correct, and then click **Apply**.

---

**Network Settings**

Select **Network Settings > APN**. You can set the Access Point Name on this page.

**SMS**

This function allows you to receive messages from your ISP.
**Operating Messages in Your Inbox**

You can check the messages saved in your device.

**Inbox**

Select SMS > Inbox to access the following figure:

All the received messages saved in your device will be displayed here. Select a message and click **Delete > Yes** to delete it.

**Device Settings**

**Account Management**

Select Settings > Device Settings > Account Management. The administrator settings information is shown in the following figure:

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

**Wi-Fi Settings**

**Basic**

Select Settings > Wi-Fi Settings > Basic Settings. The wireless network basic parameters are shown in the following figure:

- **Network Name (SSID)**: Service Set Identifier (SSID). Enter a string of fewer than 32 characters as the name for your WLAN.

- **Broadcast Network Name (SSID)**: Disable or Enable (Default) this function. If Enable is selected, the device broadcasts the SSID, and other devices can find and connect to it. When you select Disable, other devices cannot find the SSID. If you want someone to connect, tell them the SSID and let them set up manually.
• **Security Mode**: The security modes are described below:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN</td>
<td>Authentication and encryption won’t be performed. There are risks that private information will be intercepted or unauthorized individuals will use the network.</td>
</tr>
<tr>
<td>WPA2(AES)-PSK</td>
<td>A more secure version of WPA with implementation of the 802.11i standard.</td>
</tr>
<tr>
<td>WPA-PSK/WPA2-PSK</td>
<td>Apply both the WPA-PSK and WPA2-PSK schemes.</td>
</tr>
</tbody>
</table>

• **Encryption Type**: Select an encryption type from the drop-down list.
• **Max Connections**: Choose the maximum number of stations that connect the AP simultaneously.

Click **Apply** to confirm your configuration.

---

**White List**

A White List is a list of Wi-Fi devices that are approved to connect to this Wi-Fi hotspot. Select **Settings > Wi-Fi Settings > White List**. The White List configuration is shown in the following figure:

Select **Enable > Apply** and the White List settings will appear as shown below:

- **MAC Address**: Enter an approved MAC address to connect to this Wi-Fi hotspot. Click **Apply** to confirm your configuration.
Wi-Fi Power Save

Select Settings > Device Settings > Power Save. You can set Wi-Fi performance and Wi-Fi sleep to save power.

- **Wi-Fi Performance Settings**
  - **Short Wi-Fi Range**: Increases battery life.
  - **Medium Wi-Fi Range**: Balances battery life and Wi-Fi range.
  - **Long Wi-Fi Range**: Extends coverage of hotspot, which will decrease battery life.

- **Wi-Fi Sleep Settings**
  - **Sleep Time**: Select a time from the drop-down list. When there's no Wi-Fi connection made within the specific time, Wi-Fi will be unavailable and the system will turn to sleep mode to save power.

Firewall

You may set up firewall rules to protect your network from viruses and other malicious activity on the Internet.

Port Mapping

You can set up Port Mapping to enable external computers to access www, FTP, or other services provided by LAN. Select Settings > Firewall > Port Mapping. The Port Mapping page is shown in the following figure:
Select Enable > Apply and the Port Mapping Settings will appear.

- **Source Port:** Set the source port of the computer that provides services.
- **Destination IP Address:** Specify a computer located at LAN to provide services.
- **Destination Port:** Set the destination port of the computer that provides services.
- **Protocol:** Set which protocol will be applied by services.
- **Comment:** Type comment for the Port Mapping Settings.

Click Apply to add a new rule.

Select a rule and click Delete > Yes to delete it.

**Router Settings**

Select Settings > Router Settings. The router information is shown in the following figure:

- **LAN IP Address:** IP address for LAN interface.
- **Subnet Mask:** Subnet mask for the IP address.
- **DHCP Server:** Enable or disable DHCP Server function.
- **DHCP IP Pool:** Allocate beginning and ending IP addresses for IP pool.
- **DHCP Lease Time:** Define how long the leased IP address will be expired. The new IP address will be relocated after the IP address is expired.

Click Apply to confirm your configuration.
Software Update

Select **Settings > Software Update** to check if a software update is available.

Verifying SIM PIN Code

If the PIN code of your SIM card is enabled, you will need to input the PIN code when you log in the first time.

**NOTE:** The SIM card will be locked if you enter the wrong PIN code three consecutive times.

**SIM PIN Management**

If you want to modify the PIN status, select **Settings > Device Settings > SIM PIN Management**. The PIN management is shown in the following figure:

- **PIN Status**: Shows the current PIN status and allows you to select PIN status.
- **Current PIN**: Type the PIN code.

If you select **Change PIN**, you will see the following modification parameters:

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

**NOTES:**
- Entering the wrong PIN code three consecutive times will lock the SIM card.
- After you change the PIN code, you don’t need to input the PIN code again. It is required after the device is restarted.
Resetting Your Device
There are two ways to reset your device.

- Select **Settings > Device Settings > Reset**. Click **Reset > Yes** to set all the settings to their factory default values. The device will restart automatically.

- Reset your device by pressing and holding the **Reset Button**.
  1. Remove the back cover.
  2. Find the hole marked **RESET** near the side of the device.
  3. Use the end of a paperclip (or other tool that fits in the hole) to press and hold the **Reset Button** for three seconds or longer.
  4. Factory reset will take effect and then the device will restart.

Verifying IP Address and DNS
The following steps and figures reflect configuration for the Wireless Internet Protocol for your connections with a Windows® 7 operating system.

1. Right-click **Network** and then select **Properties**.

2. Select **Change adapter settings**.
Configuring Your PC

3. Right-click **Wireless Network Connection**, and then select **Properties**.

4. Select **Internet Protocol Version 4 (TCP/IPv4)**, and then click **Properties**.

5. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and then click **OK** to finish the configuration.

Information

This function allows you to check system information.
To the Owner

- Some electronic devices, such as the electronic system of vehicles, are susceptible to electromagnetic interference sent by your device if inadequately shielded. 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 20 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 gas stations, and in hospitals. Please observe and obey all warning signs and power off your device in these conditions.
- Do not touch the inner antenna area if not necessary; 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 when the device is operating as this may cause burns.

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; it may influence signal reception.

WARNING!
If the battery is broken, keep away from it. If it touches your skin, wash your skin with abundant fresh water and ask a doctor for help if necessary.

Battery Handling

- Do not short-circuit the battery, as this can cause excessive heat and fire.
- Do not store battery in hot areas or dispose of it in a fire, as this can cause an explosion.
- Do not disassemble or modify the battery.
- When not using the battery for a long period, remove it from your device and store it in a cool, dry place.
- Never use a damaged or worn-out charger or battery.
- Return the worn-out battery to the provider or put it in an approved recycling container. Do not put it in your regular house trash.

WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
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

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 1.41 W/kg (CDMA BC1) (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: SRQ-Z291DL.
For Your Safety

FCC Compliance

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.

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Suggested Solution</th>
</tr>
</thead>
</table>
| Cannot establish the Wi-Fi connection between the Z291DL device and your Wi-Fi enabled device. | • Make sure the Wi-Fi function is active.  
• Refresh network list and select the correct SSID.  
• Check the IP address to make sure your device 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 Z291DL device. |
| Your connected device cannot access the Internet. | • Make sure your SIM card is installed.  
• Change the location to find a place with a good signal.  
• Contact your service provider. |
| Cannot access the web configuration page. | • Enter the correct address. The default address is http://192.168.1.1.  
• Only use one network adapter in your PC.  
• Do not use any proxy server. |
| About the password | • The default password can be found on the label under the battery of your Z291DL device.  
If you changed the password and forgot the new password, you will need to reset the device to factory default settings. |

For more assistance, please visit www.ztedevice.com
## Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td>4G LTE</td>
</tr>
<tr>
<td>Operating System</td>
<td>Linux + REX</td>
</tr>
<tr>
<td>Technology</td>
<td>LTE Band</td>
</tr>
<tr>
<td></td>
<td>- TMO SIM/Simple Mobile TMO SIM Card: LTE-FDD Band 2/4/12</td>
</tr>
<tr>
<td></td>
<td>- ATT SIM Card: LTE-FDD Band 2/4/5/12</td>
</tr>
<tr>
<td></td>
<td>- VZW SIM Card: LTE-FDD Band 4/13</td>
</tr>
<tr>
<td>Wi-Fi Support</td>
<td>2.4 GHz, IEEE 802.11 b/g/n</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.36” (H) x 4.13” (W) x 0.63” (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>3.84 oz (with battery)</td>
</tr>
<tr>
<td>Standard Battery</td>
<td>2,000 mAh (removable)</td>
</tr>
<tr>
<td>Standby Time</td>
<td>Up to 10 days</td>
</tr>
<tr>
<td>Internal Memory</td>
<td>256 MB RAM/512 MB ROM</td>
</tr>
</tbody>
</table>