ZTE

MC7010CA
Quick Start Guide

View this label to get the default Password .

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Scan this QR code to download the Install Helper application.

LEGAL INFORMATION

Unpacking and Preparations

Before installing the device, make sure that all items listed in the packing list are present. If something is missing or damaged, pleasecontact ZTE technical support.

Packing List
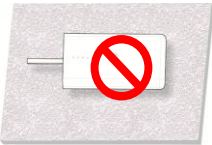
The MC7010CA ODU CPE	The Quick Start Guide	1 Cover plate kit: Anti-theft screw*2,Screw anti-theft removal wrench*1, one CAT5E Network cable(for connecting the device and the POE adapter)
Mounting Kit:Metal bracket, Backplane, Metal clamp, M6 expansion bolts & M6 expansion spigots*4,M3 crosshead screws*5	1 POE adapter and AC Power cord	1 RJ-45 Network cable (for connecting the POE adapter and PC/Router)

Prepare the following accessories(not included):

- Crosshead screwdriver
- Flat head screwdriver
- Hammer drill
- Marker pens

Installation Precautions

- Do not install the device in the following directions:

Do not install the device with the interface side facing upwards.	Do not install the device horizontally.	Do not install the device tilted.

⚠ WARNING!

The device must be installed downwards and vertically. It is not recommended to install the device in other directions(including but not limited to the above scenarios). ZTE is not liable for any problem caused by the installation in other incorrect directions.

- Do not install the device at a high position (lightning area).
- The device must be placed in a well-ventilated environment for use. If possible, install the device in a place with less direct sunlight, for example, in the shade. The device must not be installed at the outlet of the exhaust pipe, or installed in a place where water passes through, for example, a rain shed.
- The device shall be installed in the position of the site survey design drawings and within the protection range of 45° of the lightning rod. In high mountains and areas with heavy lightning (the number of thunderstorm days per year exceeds 180), ensure that the device is within the protection range of 30°of the lightning rod.
- When the device is mounted on the wall, it should better be more than 1 m away from the grounding cable of the lightning rod and more than 20 cm away from the lightning protection

zone.

- When installing the device against a pole, do not install a lightning rod on the pole. It is recommended that an independent lightning rod be installed near the pole. If a lightning rod is installed on the pole, it is recommended that the lightning rod be led out and grounded directly.
- The mounting pole must be firm, cannot be shaken and must meet the wind-resistant requirements (not less than level-10 wind speed).
- The mounting pole should be vertical, and the vertical error should be less than ±2°.

Installation Modes

You can install the device in either of the following ways:

Install the device on a wall.	Install the device against a pole.

Requirements of Installation Space
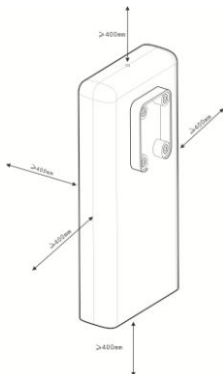
Recommended Installation Locations

1. Installing the nano-SIM Card

Insert the nano-SIM card to the SIM card slot as shown.

⚠️**WARNING**!

Your device does not support(U)SIM cards,micro-SIM cards or any other non-standard SIM cards. To avoid damage to the device, do not use those cards or any card holders.
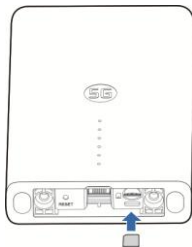
2. **Installing the Network Cable**

1. Connect the RJ45 to the network port on the MC7010CA while the two screws are also inserted into the holes at the bottom of the device.
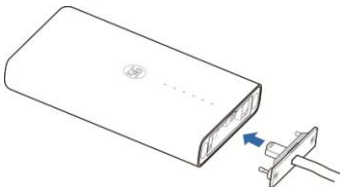
2. Push the cover plate upwards until it is secured, and use a screw anti-theft removal wrench to install the cover plate on the device.

3. Reserve enough length of the network cable,and crimp the RJ45.

3. Using Install Helper Application to Detect Position

Before installingthe MC7010CA, you can install the Install Helper applicationon your mobile phone and connect the device to detect the signal strength and help you detect and locate the installation location.

NOTE:

View the label on this guide to get the link or QR cord to download the Install Helper application.

Powering on the MC7010CA

1. Connect the CAT5Enetwork cable which is from the MC7010CA to the network port(RJ45-2) on the POE adapter.
2. Connect the power connector on the POE adapter to the socket.

Connecting to the MC7010CA

Before connecting to the device, make sure that you have installed the Install Helper application and turn Bluetooth® on of your phone.

1. Open the app list and touch**Install Helper**.

2. Touch **CONNECT TO DEVICE** and select **MC7010CA**.The Bluetooth of the device will turn on automatically, and your phone automatically scans for and displays the IDs of all available Bluetooth devices in range.

3. Touch the device you want to pair with.

4. Touch **PAIR& CONNECT >PAIR**to accept the connection.

5. Enter the password and touch **OK** to manage the device.

NOTE:

View the label onthis guideto get the default password.

Detecting and AdjustingInstallation Position

1. Move the device around the mounting wall/pole or try different positions and touch **DETECT POSITION**.

2. Follow the on-screen instructions to attach the device to your target position, and slowly move it until it provides feedback.

   NOTE:

   The device does not support elevation angle adjustment. It only supports horizontal 180° adjustment.

3. The signal strength at the current position is displayed(Perfect, Great, Good, Poor and

Terrible).You can touch **view details** to view the network details.

When the device signal is detected, your phone automatically beeps. The louder the sound and the stronger the vibration, the better the signal strength.

📝NOTE:

Touch **FINISH** to end the detection and select whether to save the current position if needed.

4. Continue the detection until the desired position is detected, and save or continue to adjust the position as prompted.

Powering off the MC7010CA

After the installation position is determined,disconnect the POE adapter from the device.

4. Installing Your Device

Installing the Device on a Wall

1. Mark the positions for drilling holes on the wall.
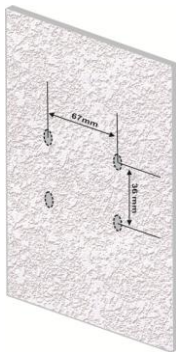
2. Firstly, use a 6mmpercussion drill to drill holes at the marked positions, and install four M6 expansionspigots.Secondly, use four M6 expansion bolts to fix the bracket to the wall.
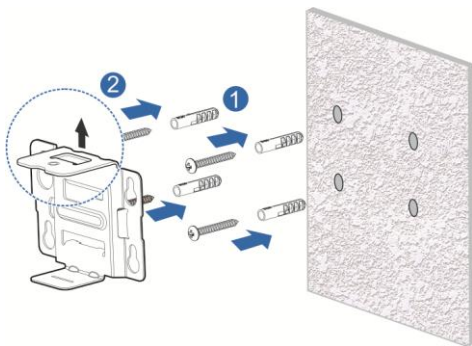
CAUTION:

The screw hole of the bracketfaces upwards. Do not install the bracketupside down.Otherwise,the screw cannot be installed later.

3. Use fourM3 crosshead screws to install the backplaneon the device.
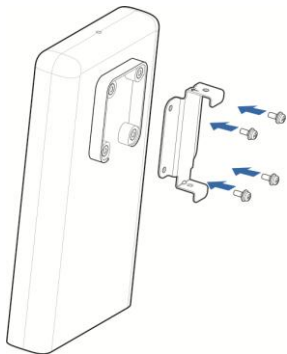
4. Firstly, fasten the backplane to the installed bracket through the upper and lower slots, and align the hole on thebackplane with the hole on the bracket.Secondly, use one M3crosshead screw to install the MC7010CA on the bracket.
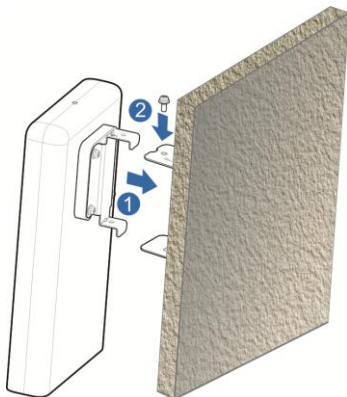
Installing the Device against a Pole

1. Use ascrewdriverto loosen the clamp and release the buckle.
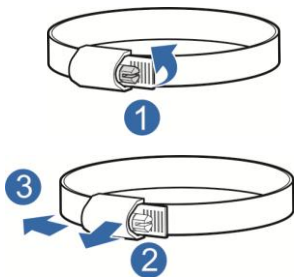
2. Pass the clamp through the U-shape groove on the bracket to install the bracket against the pole.
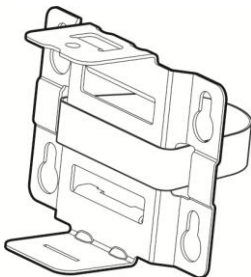

⚠️ CAUTION:

The screw hole of the bracket faces upwards. Do not install the bracketupside down.Otherwise,the screw cannot be installed later.

3. Adjust the clamp to the proper tightening position, press the buckle and use a screwdriver to lock the clampto fix the bracket.
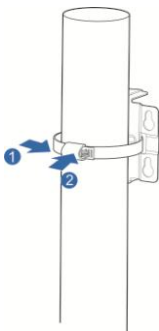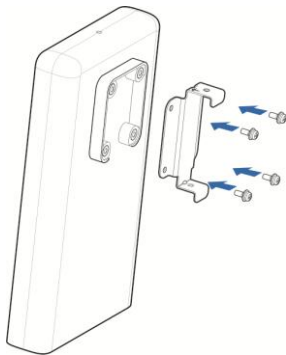
4. Use four M3 crosshead screws to install the backplane on the device.

5. Firstly, fasten the backplane to the installed bracket through the upper and lower slots, and align the hole on the backplane with the hole on the bracket. Secondly, use one M3crosshead screw to install the MC7010CA on the bracket.
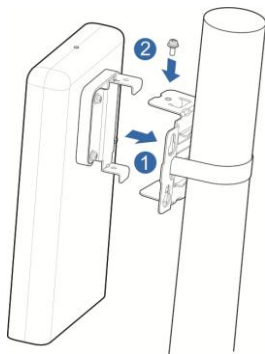

🖉NOTE:

Before installing the device on the bracket, you can move the device horizontally and slowly on the pole tofurther adjust the position if needed.

5. Connecting the POE Adapter

1. Connect the CAT5Enetwork cable which is from the MC7010CA to the network port(RJ45-2) on the POE adapter.
2. Connect the PC network port(RJ45-1) on the POE adapterto yourPC/IDU(router) with the RJ-45 network cable.
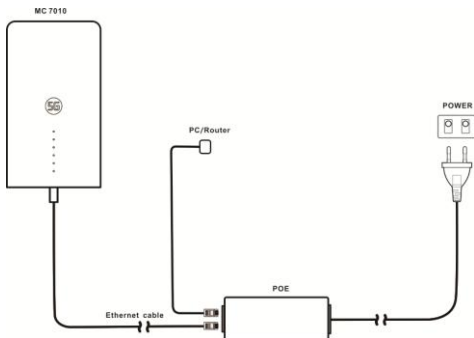
Installation Check

Device Installation:

- The MC7010CA is installed firmly.
- The network cables are installed firmly.
- The cover plate on the device is installed.
- The nano-SIM card is installed.
- The network interface on the POE adapter is installed correctly.

CablesInstallation:

- Verify that all cables are connected properly, cable connectors aresecure.
- Cables should be laid in aclear and straight manner without crossing each other. There is no obvious curve or slant. Cables do not hang in the air or cross each other.

System Power-On

Powering on the device

Connect the power connector on the POE adapter to the socket. The POE adapter starts to supply power to the MC7010CA. When the indicatorof the POE adapter and the POWER LEDof thedevice turns green, the MC7010CAis correctly powered.

Preliminary Device Acceptance

1. Check indicator status.
2. Connect the device to a PC and log in to the configuration pageto view the device status.

LED Behavior

When setting up the MC7010CA, the LED will have the following behavior.
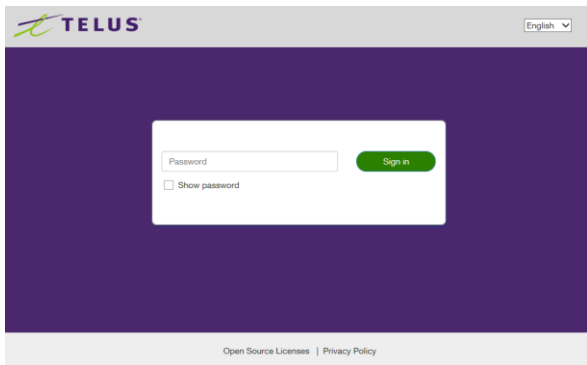
Indicator	Status	Description
POWER	On	Power is on and external power supply is working normally.
	Off	Power is off.
NETWORK	Red blinking	The device is in error status: • The device isnot registered to the mobile network. • There is no nano-SIM card inserted. • There is no network service available.
	Green on	The device isregistered or connected to the 5G networkand data is being transferred.
	Green blinking	The device isconnected or connected to the 3G/4G LTE network and data is being transferred.
LAN	Green on	The LAN port is connected.
	Green blinking	Data is being transferred.
	Off	The LAN port is not connected.
SIGNAL (Three lights)	On	Three lights show the signal strength. More lightson means better signals.
	Off	There is no signal or no nano-SIM card is inserted.

NOTES:

• To avoid light pollution and save energy, indicators will be turned off after the device operates normally for about 15 minutes. If indicators need to be solid on, you can change it's settings on the MC7010CA configuration page.

• When a problem occurs, indicators will be automatically lighted up again to help you check the device status. After the problem is resolved, indicators will be turned off immediately.

Logging in to the MC7010CA Page

1. Ensure that the connection between your device and the PC/ router is correct.
2. Launch the Internet browser and enter **http://192.168.254.1** in the address bar.
3. Enter the password to log in to the MC7010CA configuration page

✏️**NOTE**:

View the label on this guide to get the default password.

Accessing the Internet

After a PC/router is successfully connected to your device, you can access the Internet in **Automatic** or **Manual** mode. The default mode is **Automatic**.

Mode	Operation
Automatic	Your device is automatically connected to the Internet, and you can surf on the Internet through the router.
Manual	1. Log in to the MC7010CA configuration page. 2. Select **Set internet>Connection Mode> Manual**, and then click **Apply**. 3. Click ⟨ twice to return to the home page, and click ⬤ OFF or ON ⬤

✏ **NOTES:**

- To change the current connection setting, please disconnect from the Internet first.

- To modify the parameters of your device, log in to the MC7010CA configuration page.

Confirming the Connection Status and Making More Settings

Confirming the Connection Status

The connection status related information is displayed when you log in to the configuration home page, and the **Status Information** below shows the information about System information, LAN details, Cellular connection status, WAN connection status and advanced status details. You can touch **Detail** Informationto get more details. To see details on the connected session, touch **Data Usage**at the bottom left of the page.

Making More Settings

At the bottom left of the home page, you can send**SMS**, add **Phonebook** and touch **Advanced Settings** to make more settings of your device.

Troubleshooting

Problem	Recommended Action
The PC/router connected to the device cannot access the Internet.	• Ensure that your nano-SIMcard is available. • Change the location and find a place with good signal. • Check the settings of the LAN connection mode. • Contact your service provider and confirm your APN settings.
The MC7010CA configuration page cannot be visited.	• Enter the correct address. The default address is http://192.168.254.1. • Use only one network adapter in your PC. • Do not use any proxy server.

NOTE:
You can press and hold the **RESET** button at the bottom of the device for about 3 seconds to restore your device to the factory settings if needed.

Getting More Help

You can get help by:

•Sending an email to **mobile@zte.com.cn**

• Visiting **www.ztedevices.com**

Warning and Notice

Radio Frequency Interference

General Statement on Interference

Some electronic devices may be susceptible to electromagnetic interference. Locate the device away from TV set, radio and other electronic equipment to avoid electromagnetic interference.

Medical Equipment

- Switch off your wireless device when you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.
- Care must be taken when using your device in close proximity to personal medical devices, such as pacemakers and hearing aids.
- Please consult your doctor and the medical device manufacturers to determine if the operation of the device may interfere with the operation of your medical devices.

Explosive Environments

- Do not use your device in dangerous environments such as petrol stations or chemical factories where there are explosive gases or explosive products being processed. In locations with potentially explosive atmospheres, obey all posted signs to turn off wireless devices.
- Areas with potentially explosive atmospheres include fueling areas, below decks on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.
- Do not store or transport the device in containers with flammable liquids, gases, or explosives.

Product Handling

- Please keep yourself at least 20 centimeters away from your device.
- To avoid circuit malfunctions, do not use the device in dusty, damp or dirty environments or close to magnetic fields.
- Before connecting or disconnecting the device cable, stop using the device and disconnect the power adapter. You should keep your hands dry during the operation.
- When placing your device, keep it away from electrical appliances with strong magnetic or electric fields, such as microwave ovens and refrigerators.
- Do not expose your device or its accessories to liquid, moisture or high humidity. Keep them in a well-ventilated and cool environment away from direct sunlight.
- Keep your device or its accessories away from sources of heat and fire. High temperature can shorten the life of electronic devices.

- Do not wrap, seal or cover the device with towels or other objects. Do not use the device in a closed environment such as a box to avoid damage to the device due to poor heat dissipation.
- Do not allow the device or accessories to come into contact with liquid or moisture at any time. Do not immerse the device in any liquid.
- Your device may become warm during normal use. If the device temperature is too high, do not touch it.
- Do not touch the antenna unnecessarily.
- Do not drop, throw or try to bend your device or its accessories.
- Do not paint your device or its accessories.
- Do not allow children to play with the device or power adapter. Doing so may result in damage or explosion.

Small Children

- Do not leave your device and its accessories within the reach of small children or allow them to play with it.They could hurt themselves or others, or could accidentally damage the device.
- Your device contains small parts with sharp edges that may cause an injury or may become detached and create a choking hazard.

Accessories

- Please use original accessories or accessories that are authorized by ZTE. Unauthorized accessories may affect the device performance, damage the device or cause danger to you.
- Using other types of accessories may void the device warranty, violate the local regulations and laws, and cause an accident. To obtain approved accessories, please contact an authorized service center.

Electrical Safety

- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- The power plug is intended as a device to disconnect the power.
- When the device is not in use, please unplug the power adapter from the power outlet and the device.
- Do not drop or hit the power adapter. If it is damaged, please contact an authorized service center for inspection.
- If the power plug or power cable is damaged, stop using it immediately. Continued use may cause electric shock or fire.
- Do not touch the power cable with wet hands, or pull the power cable to disconnect the power adapter.

- To avoid short circuit, malfunction or electric shock, do not touch the device or power adapter with wet hands.
- When the power adapter is exposed to rain, liquid or severe moisture, stop using it and contact an authorized service center for inspection.

Cleaning and Maintenance

- The recommended operating temperatures are -40 °C to +55 °C and the storage temperatures are -40 °C to +70 °C. The humidity range is 5% ~ 95%.
- During storage, transportation, and use of the device, keep it dry and avoid sharp collisions with other objects.
- Keep the device and its accessories dry. Do not use external heating devices such as microwave ovens or hair dryers to dry them.
- Do not place the device and its accessories in areas where the temperature is too high or too low. Otherwise, the device may malfunction, catch fire or explode.
- Do not cause strong impacts to the device and its accessories. Otherwise, the device may malfunction, catch fire or explode.
- When not using the device for a long period, power it off and remove all cables connected to it.
- If any abnormal phenomenon (such as smoke, unusual sound or peculiar smell) occurs, stop using it immediately, disconnect the power adapter, unplug all cables connected to the device, and contact an authorized service center.
- Do not step on, pull, or excessively bend the device cables. Otherwise the cables may be damaged and the device may malfunction.
- Before cleaning and maintenance, stop using the device, close all applications, and disconnect all cables connected to it.
- Use an antistatic cloth to clean the device and its accessories. Do not use harsh chemicals, cleaning solvents, or aerosols to clean them. Power off your device before you clean it.
- Do not attempt to disassemble the device or its accessories. Unauthorized disassembly or modification will void the warranty.
- Only qualified personnel can service or repair the device or its accessories. If your device (or its accessories) has been submerged in water, punctured, or subjected to a severe fall, do not use it until you have taken it to be checked at an authorized service center.

Environmental Protection

- Do not dispose of the device and its accessories as household garbage.
- Please comply with your local laws and regulations regarding the disposal of the device and its accessories.

Limited Warranty

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

i.   Reasonable abrasion.

ii.   End users' failure to follow ZTE's installation, operation or maintenance instructions or procedures.

iii. End users' mishandling, misuse, negligence, or improper installation, disassembly, storage, servicing or operation of the product.

iv.   Modifications or repairs not provided by ZTE or a ZTE-certified individual.

v.   Power failures, surges, fire, flood, accidents, and 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 if such defects are due to the combined usage.

vii. Any other cause beyond the range of normal usage intended for the product.

End users 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 users' 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, no matter 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.

FCC Regulations:

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 device 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 radiated 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.

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

FCC RF Exposure Information (SAR)

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 United States.

During SAR testing, this device is set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage against the head with no separation, and near the body with the separation of 10 mm. Although the SAR is determined at the highest certified power level, the actual SAR level of the 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 power required to reach the network.   In general, the closer you are to a wireless base station antenna, the lower the power output.

The exposure standard for wireless employs a unit of measurement known as the Specific Absorption Rate, or SAR.   The SAR limit set by the FCC is 1.6W/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.

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 www.fcc.gov/oet/ea/fccid after searching on FCC ID: SRQ-MC7010CA.

For this device, the highest reported SAR value for near the body is 0.51 W/kg.

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

SAR compliance for body operation is based on a separation distance of 10 mm between the unit and the human body. Carry this device, at least 10 mm away from your body to ensure RF exposure level compliant or lower to the reported level. To support body operation, choose the belt clips or holsters, which do not contain metallic components, to maintain a separation of 10 mm between this and your body.

IC Notice

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device .
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Notice:
This device compliesnwith RSS-247 of Industry Canada.
Operation is subject to the condition that this device does not cause harmful interference.
This Class B digital apparatus complies with Canadian ICES-003.
(Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.)

IC: 5200E-MC7010CA

IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 1.5 cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

ZTE CORPORATION

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