

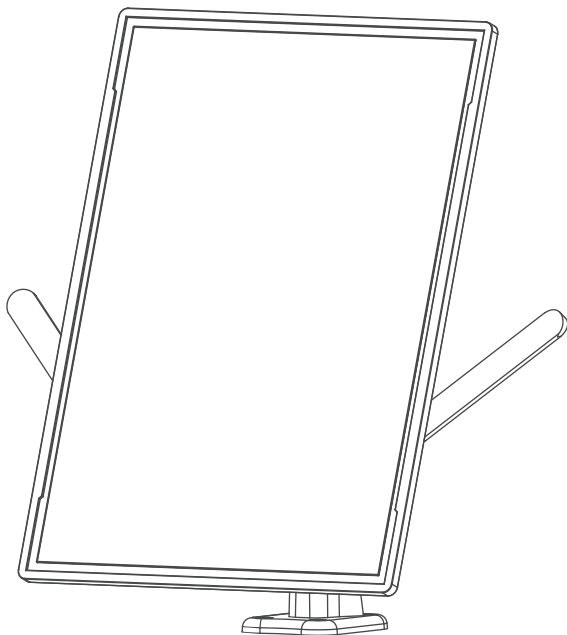
# Solar Powered 4G Router

## User Manual

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ASR1000

EN v 1.2



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## 1. Before You Start

### Supported SIM Card

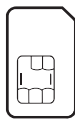
Important: This router supports Nano SIM cards only.



**Nano SIM**  
(12.8 x 8.8 mm)

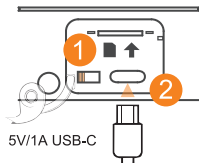


**Micro SIM**  
(15 x 12 mm)



**Standard SIM**  
(25 x 15 mm)

### Charge Before Use



1. Turn on POWER
2. Use the USB-C

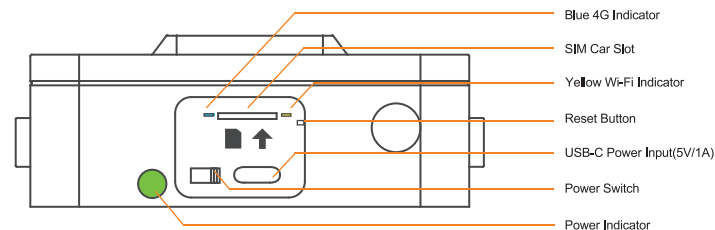
Use the USB-C port to charge the router before first use.  
A full charge takes approximately **4 hours**.



#### Note

Use a 5V/1A USB-C power source when charging the router or powering it during setup.

## 2. Device Parts



## 3. LED Signals

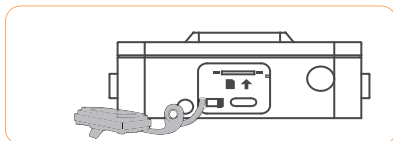
### Power Indicator

| Indicator Status               | Description              |
|--------------------------------|--------------------------|
| Solid Green                    | Fully charged            |
| Solid Yellow                   | Sufficient battery level |
| Solid Red                      | Low battery              |
| Fast Flashing Red              | Critically low battery   |
| Alternating Red/ Yellow/ Green | Charging                 |

### Network& Wi-Fi Indicator

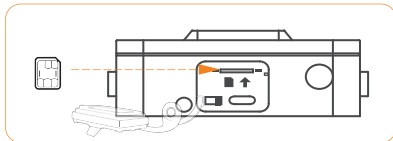
| Indicator Status           | Description                                             |
|----------------------------|---------------------------------------------------------|
| Blue 4G slow flashing      | No SIM card inserted or SIM card not registered         |
| Blue 4G solid              | SIM card registered successfully : mobile network ready |
| Yellow Wi-Fi solid         | Device standby : Wi-Fi available                        |
| Yellow Wi-Fi slow flashing | A client device is connected through Wi-Fi              |

## 4. Insert SIM Card & Power On



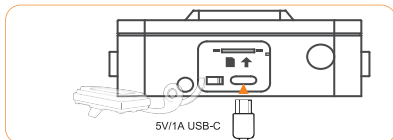
### 1 Open the waterproof cap

Open the waterproof rubber cap on the side of the device to access the SIM card slot, USB-C power input, and power switch.



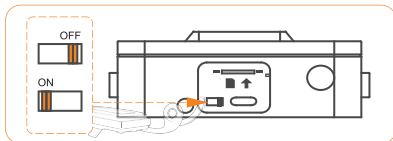
### 2 Insert the SIM card

Insert the SIM card according to the direction marking beside the slot. Make sure the orientation is correct.



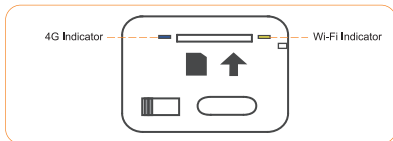
### 3 Connect power if needed

Connect a 5V/1A USB-C power source to the device.



### 4 Turn on the device

Move the power switch from OFF to ON.



### 5 Check the indicators

After startup, confirm that the Power, 4G, and Wi-Fi indicators show normal status.



#### Note

Make sure the SIM card has an active data service plan.

## 5. Setup Wi-Fi Name and Password

### 1 Connect to the Router Wi-Fi



Use a computer or smartphone to connect to the router's default Wi-Fi. SSID: **4G\_AP\_\*\*\*\***; Password: **12345678**.

### 2 Open the management page



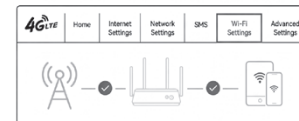
Open a web browser and go to **192.168.1.1**

### 3 Log in



Enter the administrator credentials.  
Username: **admin**; Password: **admin**.

### 4 Go to Wi-Fi Settings



After logging in, click 'Wi-Fi Settings'

### 5 Change the name and password



Click 'Wireless Security', enter a new Wi-Fi name (SSID) and password, then click 'Save'.

### 6 Reconnect



After saving, reconnect to the new Wi-Fi network to begin normal use.

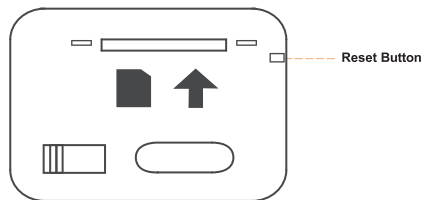


#### Note

The password confirmation field appears automatically after you enter a new password.

## 6. Restore Factory Settings

Use this procedure if you need to return the router to its default settings. All custom settings, including the Wi-Fi name (SSID) and password, will be reset.



### 1 Turn the router ON

Move the power switch to the ON position.

### 2 Press and hold RESET

Use tweezers or a paper clip to press and hold the reset button for 4 seconds.

### 3 Wait for restart

All indicators will turn off and the router will restart automatically.

### 4 Reconnect using default Wi-Fi

After the restart, connect using the factory default Wi-Fi settings shown below.

#### Factory Default Wi-Fi Settings

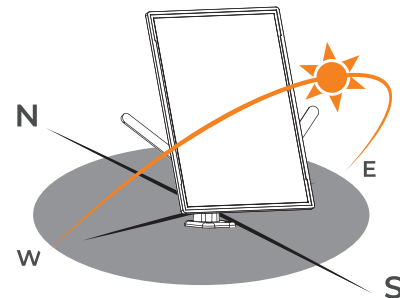
Wi-Fi Name (SSID): 4G\_AP\_xxxx

Password: 12345678

## 7. Installation

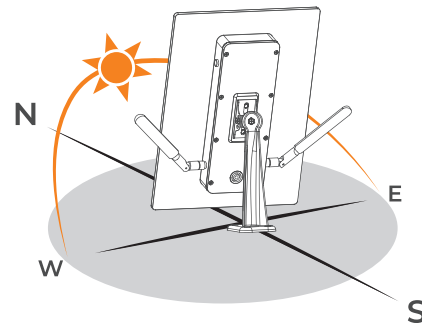
### Northern Hemisphere

Set the panel facing south in the Northern hemisphere



### Southern Hemisphere

Set the panel facing north in the Southern hemisphere



## 8. Specifications

| Item                         | Description                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                 | ASR1000-F: US version (Certification: FCC)<br>ASR1000-C: EU version (Certification: CE)                    |
| <b>Cellular Network</b>      | LTE Category 4: FDD-LTE / TDD-LTE, WCDMA<br>Maximum Data Rate: Up to 150 Mbps download / 50 Mbps upload    |
| <b>Data Rate</b>             | FDD-LTE, Download: 150 Mbps, Upload 50 Mbps, Cat. 4<br>TDD-LTE, Download: 130 Mbps, Upload 35 Mbps, Cat. 4 |
| <b>Supported Bands</b>       | ASR1000-F :<br>LTE B1/B2/B3/B4/B5/B7/B8/B12/B17/B28/<br>B38/B40/B41/B66; WCDMA B1/B2/B4/B8                 |
|                              | ASR1000-C :<br>LTE B1/B3/B5/B7/B8/B20/B28/B38/B40/B41;<br>WCDMA B1/B5/B8                                   |
| <b>Supported SIM Type</b>    | Nano SIM card (SIM CARD NOT INCLUDED)                                                                      |
| <b>Wi-Fi</b>                 | 2.4 GHz, 802.11 n/g/b<br>Security: WPA/WPA2-PSK                                                            |
| <b>Wi-Fi Range</b>           | Recommended within 164 ft (50m):<br>up to 328ft (100m) under optimal conditions.                           |
| <b>Supported Cameras</b>     | Up to 20 cameras                                                                                           |
| <b>Solar Panel</b>           | Cell Type: Shingled Monocrystalline<br>Rated Power: 15 W<br>Conversion efficiency: 22%-24%                 |
| <b>Battery</b>               | Built-in rechargeable battery: 20,000 mAh<br>Operating Time: Up to 3 days without sunlight charging        |
| <b>Charging Input</b>        | USB-C, 5 V / 1 A                                                                                           |
| <b>Power Output</b>          | Not supported                                                                                              |
| <b>Waterproof Rated</b>      | IP X5                                                                                                      |
| <b>Operation Temperature</b> | -4°F to 176°F (-20°C to 80°C)                                                                              |
| <b>Dimensions</b>            | 12.6× 9.2 × 1.6 in (320 x 233 x 40 mm)                                                                     |
| <b>Weights</b>               | 2.87 lbs (1.3 kg)                                                                                          |
| <b>Package Contents</b>      | Solar powered 4G router, wall mount, screws                                                                |



### Note

Actual operating time may vary depending on sunlight conditions, network coverage, the number of connected cameras, and data usage.

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