OUTDOORROUTER



EZR23T QUICK GUIDANCE EZR23T KURZANLEITUNG



EZR23T.Router.Works

Scan the QR code on a smartphone camera to view the full online manual or type the URL on any device's web browser bar.

Scannen Sie den QR-Code auf einer Smartphone, um das vollständige Online-Handbuch anzuzeigen, oder geben Sie die URL in die Webbrowserleiste eines beliebigen Geräts ein.

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Note: The AC to DC power adapter contains the appropriate regional electrical plug to match the destination, whether UK, EU, US, or AU standards.

Firstly, locate the antenna sockets on the enclosure. "Mobile" is for the 4G paddle antennas, and "Wi-Fi" is for the WiFi antennas.



When installing the antennas, put the router and antennas in a straight direction to avoid bending the pins. Twist the SMA-male connector on the antennas in the clockwise direction to install the antennas on the router.

UPGRADEABLE

You may replace the default antennas with upgraded or external antennas. Ensure the new antennas have correct frequency spectrums and have the SMA-male connector with a pin in the center.

SIM CARD & POWER SUPPLY

SIM-KARTE & STROMVERSORGUNG



Connect a computer or another router to the "PoE & LAN" or "LAN" ports on the EZR23T router to get the Ethernet.

You can also input Internet to the router on its "PoE & WAN" port.



LOCATION & SIGNALS STANDORT & SIGNALE

CHOOSE A LOCATION

The mobile signal quality is crucial to mobile internet speed and stability! Ensure the location has a fair 4G signal coverage for the router and less Radio Frequency (RF) interference.

The router should be installed in a suitable location, such as elevated, near a window, and away from obstructions and other RF equipment.

The mobile modem sensitivity is -101dBm. We should input at least 2-bar 4G signals for the router. You can use your phone, walk around, and choose a location with a strong 4G signal reception. To measure the signal quality accurately, please check the tutorial at https://www.outdoorrouter.com/signal/.

OundoorNouter	RSSI	SINR (dB)	RSRQ (dB)	RSRP (dBm)	
Technology	LTE & 3G	LTE Only	LTE Only	LTE Only	
Excellent.	+45	+12.5	3.5	> 84	
Good	-65 to -75	10 to 12.5	-6 to -10	-85 to -102	
Fair	-75 to -85	7 to 10	-6 to -10	-103 to -111	
Poor	< 85	47	<.11	4-112	

After connecting and logging into the router, you can find the mobile signal quality on the front page when the mobile modem is connected. You can change the router location and adjust the 4G antenna directions to improve the signal reception.

ADJUST ANTENNA

The two wide panels on the 4G paddle antennas have a higher performance. Adjust the paddle side point to outside or cellular tower direction to receive a better signal.



FIRMWARE CONFIGURATION FIRMWARE KONFIGURATION

CONNECT BY WIFI OR LAN

Plug the DC adapter into an electric outlet, then connect the DC plug to the DC socket on the router. The EZR23T will power on and take 3-4 minutes to boot up.

Use a phone, tablet, or laptop to search for and join the hotspot "Cellular-WiFi-xxxx". The default hotspot has no encryption enabled.

Alternatively, use the included LAN cable to connect your wired device to either the "LAN" port or "PoE & LAN" port located on the router.

After connecting to the router, open a web browser, enter the router IP http://192.168.20.1 on the address bar. Click the Login button to access the admin panel.

••• http:/	/192.168.20.1	
AUTHORIZ	ZATION REQUIRED	
Please enter	your router password!	
Password	Default has no password!	Login

* If unable to access the login page, change a web browser and recheck the Wi-Fi or LAN connection.

SET ADMIN PASSWORD

After accessing the router, navigate to **System > System** from the top menu. Under the General Settings tab, click the Sync with browser button to sync the time.

Go to System > Administration, input new custom router password twice, then click the Save and Apply button to save settings. * Keep the password in a safe place.

SETUP MOBILE MODEM

The router comes pre-configured with generic mobile broadband settings that work with most carriers. On the homepage, the right panel displays the mobile connection's modem details and real-time status.

If the mobile fails to connect, first check the mobile signal coverage on a phone, then verify and ensure the SIM card is activated and has a data allowance.

MOBILE INTERFACE

Go to Networ protocol, upti Click the Edit advanced Mc	k > Interfaces. Check the ime, data flow, SIM, and IP. MOBILE Protocol: Mobile Data Uptime: 12h 12m 12s RX: 757.03 KB (1782 Pkts.) TX: 1.66 MB (11551 Pkts.) SIM: Primary SIM1 IPV4: 10.xxxx.xx/xx				
Protocol	The default "Mobile Data" protocol works well in urban regions and for most major carriers. Rural areas with limited cellular infrastructure and virtual operators may require the "Cellular PPP" protocol instead. https://how.router.works/mobile/protocol				
Active SIM	Choose the SIM card slot that inserts a SIM card. The router uses SIM card #1 as the primary card.				
Auto Switch SIM Card	Enable it when inserting two SIM cards on both SIM1/2 slots. It switches to another slot when Active SIM Card is offline.				
Supported Modes & Bands	The router allows limiting cellular connectivity to specific network modes and licensed frequency bands under the "Supported Modes" and "Supported Bands" settings. Keep default settings for the most compatible connectivity.				
	Primary SIM1 / Secondary SIM2				
APN	Access Point Name - Gateway to access a carrier's mobile Internet. Refer to the tutorial below to set the APN parameters. https://how.router.works/mobile/apn				
PIN	Leave it blank when using the default SIM card PIN code.				
AuthenticationUsually use PAP or PAP/CHAP authentication.IP TypePlease choose IPv4 only or both IPv4/IPv6.					



LAN NETWORK

Turn on DHCP mode on the phone or computer to obtain a local IP address from the router. To use a static IP address, please comply with the below format.

192.168.20.100~249 (pick one IP from 100~249) Computer IP Subnet mask 255.255.255.0 (24 on Windows) Gateway 192.168.20.1

SET WIFI HOTSPOTS

Go to Network > Wireless, there are two WiFi hotspots on the wireless overview. [radio0] Generic MAC80211802.11bgn SSID: Cellular-WiFi-xxxxxx [on] SSID: Guest-WiFi-xxxxxx [off]

Click the Disable (Enable) buttons to turn off (on) the WiFi hotspots. Associated Stations are the active WiFi connections and their working status.

Click the *Edit* buttons on each SSID row to enter their configuration pages. On the General Setup tab, you can monitor the hotspot's working status. Suggest using default settings of Mode, Channel, Width, and Transmit Power.

WIFI SSID & PASSWORD

Scroll down to Interface Configuration, and change WiFi SSID on the ESSID field. Click the tab of Wireless Security, and choose WPA, WPA2, or mixed mode on the Encryption option. Input the WiFi password in the Key field.

Click the Save & Apply button on the bottom right corner. The WiFi hotspot takes 2~3 minutes to reboot. Then re-connect to the new hotspot.

WIFI RELAY

You can connect the EZR23T router to a WiFi hotspot to get an Internet connection.

Go to "Network > Wireless," click the Scan button, and Join Network on the scanning result page. Enter the target WiFi hotspot password and leave the other default settings unchanged.

RECOVERY



Rebooting the router could solve glitches after a long period of work. Go to System > Reboot or replug the DC adapter to reboot the router.

If the router works unstable after changing settings, go to System > Backup / Flash Firmware. Click the Perform Reset button to reset it.

To run a hard reset, tap and hold the **Reset** button for 5 seconds when the router is powered on. Release it and wait 5 minutes until boots up.

IMPORTANT!

DO NOT TURN OFF POWER WHILE RESETTING THE ROUTER!



Thanks for reading! If you have questions while using the router, please check the online manual at https://EZR23T.Router.Works

Please feel free to contact us if you need any further assistance.



OutdoorRouter

www.outdoorrouter.com

Please contact our customer support team if you need any additional help or have any questions.

Bitte wenden Sie sich an unser Kundensupport-Team, wenn Sie weitere Hilfe benötigen oder Fragen haben.

CALL US

United Kingdom	+44	020	3575	1156
United States	+1	323	521	4621
Australia	+61	02	8205	3116

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E-MAIL

sales@outdoorrouter.com