

ComFi IX220

Outdoor 4G Wireless Router

Product Specifications



- SIM Card Plug and Play, Auto Dial-up Internet Access
- Standard RJ45 Network Port for Direct Use
- Supply 12VDC Power Interface For External Device Use
- Support 110V-240VAC Power Input
- Integrated External Antenna and Outdoor Rainproof
- Low Cost, Low Power Consumption, High Reliability

Product Description

The ComFi IX220 is wireless router based on 4G cellular communication and WIFI technology platform, supports wireless communication of FDD-LTE, TDD-LTE and WLAN through multiple network standards. It is designed for plug-and-play wireless monitoring applications. In addition, the ComFi IX220 can also be widely used in various IoT front-end data capture and collection, as well as medium and high-speed data transmission unit (DTU) by typical interfaces directly connected to the control board to realize application solutions. The ComFi IX220 provides AC110~220V AC power input interface, DC12V power output interface, USB interface (built-in optional), SIM card socket interface (built-in), soft reset button (built-in), UART interface (built-in optional), 10M/100M Network RJ45 Interface.

Product Features

Industrial Application Design

The ComFi IX220 uses a stable performance single chip has enterprise-level data communication processing capabilities, built-in 128MB system memory, Wi-Fi support 2.4GHz 802.11n wireless protocol. The product supports low power consumption modes, including sleep mode, scheduled online and offline mode and timer switch mode (only supported by special version). In addition, the product adopts a waterproof case, the protection level meets IP54 that provides a decent protection in an outdoor environment. It is especially suitable for industrial control field applications. The wide-voltage AC input design (AC110V~AC220V) and 12VDC power output design meet the needs of various industrial control fields.

Stable and Reliable

The ComFi IX220 adopts a built in watchdog design to ensure system stability and support long term stable operation. External network communication adopts a complete anti-drop mechanism to ensure that the data communication terminal is always online. In addition, it provides comprehensive interface protection such as built-in 1.5KV electromagnetic isolation protection for the Ethernet port, built-in reverse and overvoltage protection for the power interface, and lightning protection for the antenna interface.

Convenient and Easy to Use

The ComFi IX220 provides a standard Ethernet interface, which can be directly connected to an equipment via Ethernet port with a network cable. It also provides WIFI connection which can be directly connected to a wireless equipment. The device is an intelligent data terminal, which can enter to the data transmission state after power on. It is convenient and flexible to use. It supports multiple working modes and is convenient for system configuration and maintenance.

Device Interfaces

| Item | Description | Remark |
|--------------------|--|------------------------------|
| Power Interface | Input: AC110~220V, Output 12V/2A | |
| USB Interface | USB 2.0 Interface x 1 | Built-in Terminal (Optional) |
| USIM Interface | 1.8V/3.0V Nano USIM/SIM Card | |
| Ethernet Interface | RJ45 Port, 10/100 Auto Adaptive, LAN/WAN Configurable | |
| UART Interface | UART Interface x 1 | Built-in terminal (Optional) |
| Reset Button | Long hold 3sec above to reset to factory default setting | |
| LED Indicators | Power On / WIFI Status x 1, Cellular Connection Status x 1 | Internal |

4G/3G/2G Technical Specifications

| Item | Description |
|-----------------------|--|
| Cellular Technology | LTE FDD, LTE-TDD, WCDMA, TD-SCDMA, EDGE, GPRS, GSM |
| Data Rate | LTE-FDD: Max 150Mbps DL / Max 50Mbps UL |
| | LTE-TDD: Max 130Mbps DL / Max 35Mbps UL |
| | WCDMA: Max 21Mbps DL / Max 5.76Mbps UL |
| | TD-SCDMA: Max 4.2Mbps DL / Max 2.2Mbps UL |
| | EDGE: Max 236.8Kbps DL / Max 118Kbps UL |
| | GPRS: Max 85.6Kbps DL / Max 85.6Kbps UL |
| | GSM: Max 9.6Kbps DL / Max 2.7Kbps UL |
| Rx Sensitivity | Compliance with 3GPP Release 9 Standard |
| Tx Output Power (Max) | LTE-FDD: 23dBm±2dB |
| | LTE-TDD: 23dBm±2dB |
| | WCDMA: 24dBm±1dB/-3dB |
| | TD-SCDMA: 24dBm±1dB/-3dB |
| | GSM: B5/B8: +33±2dB (Power Class 4) |
| | GSM: B2/B3: +30±2dB (Power Class 1) |
| Antenna Type | External Antenna |

| | |
|--------------|------|
| Antenna Gain | 5dBi |
|--------------|------|

Cellular Band/Frequency (Europe version)

| Standards | Bands |
|------------|----------------------------------|
| 4G LTE-FDD | B1, B2, B3, B5, B7, B8, B20 |
| 4G LTE-TDD | B38, B39, B40, B41 |
| TD-SCDMA | B34, B39 |
| WCDMA | B1, B2, B5, B8 |
| GSM | 850, 900, 1800, 1900 (Quad-Band) |

Cellular Band/Frequency (Pacific version)

| Standards | Bands |
|------------|----------------------------------|
| 4G LTE-FDD | B1, B2, B3, B5, B7, B8, B28(A+B) |
| 4G LTE-TDD | B38, B39, B40, B41 |
| TD-SCDMA | B34, B39 |
| WCDMA | B1, B2, B5, B8 |
| GSM | 850, 900, 1800, 1900 (Quad-Band) |

Cellular Band/Frequency (China version)

| Standards | Bands |
|------------|--------------------|
| 4G LTE-FDD | B1, B3, B5, B8 |
| 4G LTE-TDD | B38, B39, B40, B41 |
| TD-SCDMA | B34, B39 |
| WCDMA | B1, B8 |
| GSM | 900, 1800 |

Environmental Specifications

| Item | Description |
|-----------------------|-----------------|
| Operating Temperature | -20 °C ~ +70 °C |
| Storage Temperature | -40 °C ~ +85 °C |
| Operating Humidity | 5% ~ 95% |

Device Access Information

| Item | Default Value |
|------------------------|---------------|
| Default IP Address | 192.168.150.1 |
| Default Login ID | admin |
| Default Login Password | admin |
| Default WIFI Password | 12345678 |

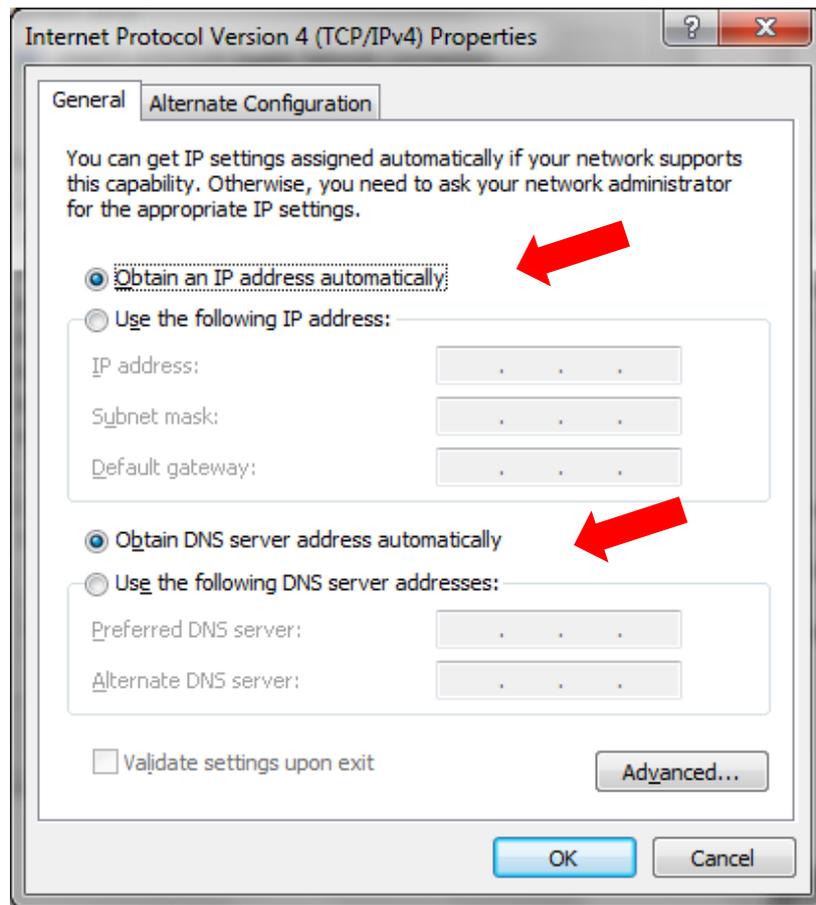
Note: Login ID and password can be modified in the device setting.

Access and operate the software function of the device can be done via a web browser. There are two methods can do it: 1. Wired connection and 2. Wireless WI-Fi.

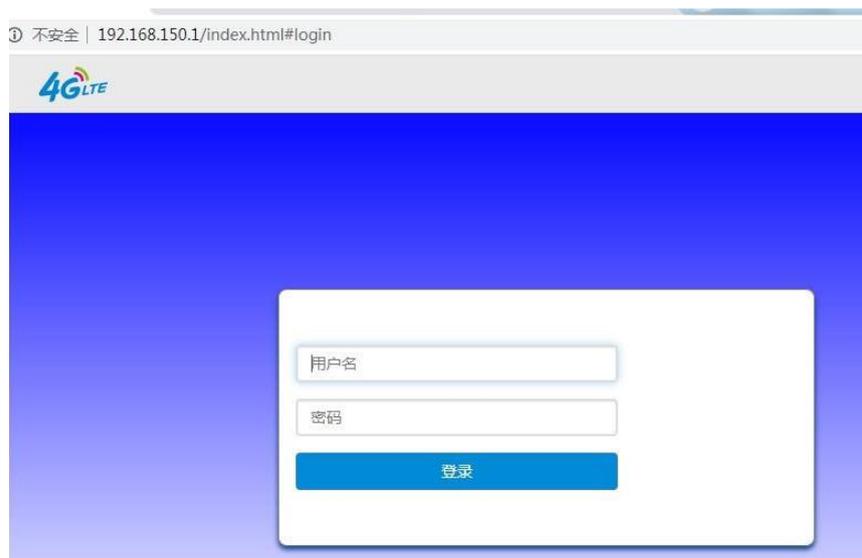
First time to use

Before proceeding to the device login interface, connect the device to a power source. For wired connection as an example:

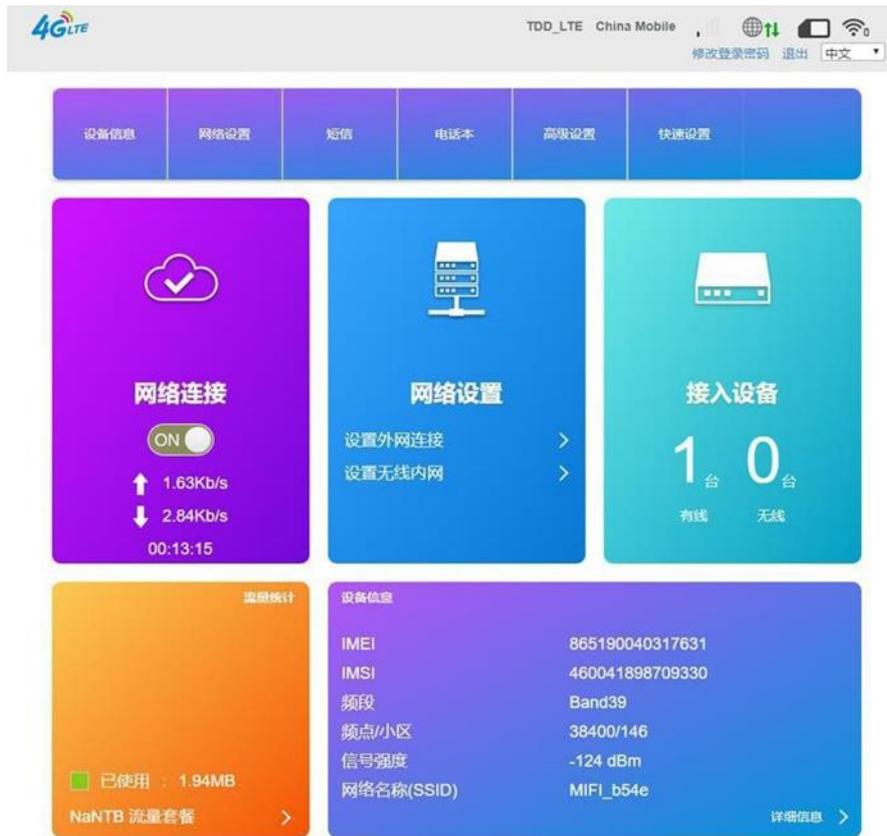
- a. Use a network cable to connect the network port RJ45 interface of the device to the network port interface of the PC
- b. On the PC, the computer network port is generally set to automatic mode, as follows:



- c. Once the connection of the device and the PC connected successfully. Open a web browser and enter the IP address: 192.168.150.1 and enter. The web browser should display the login page as below:



- d. In the username and password field key in the default username and password: **admin** and then press enter to login to the device. Once login successfully, a web dashboard interface in be display as below:



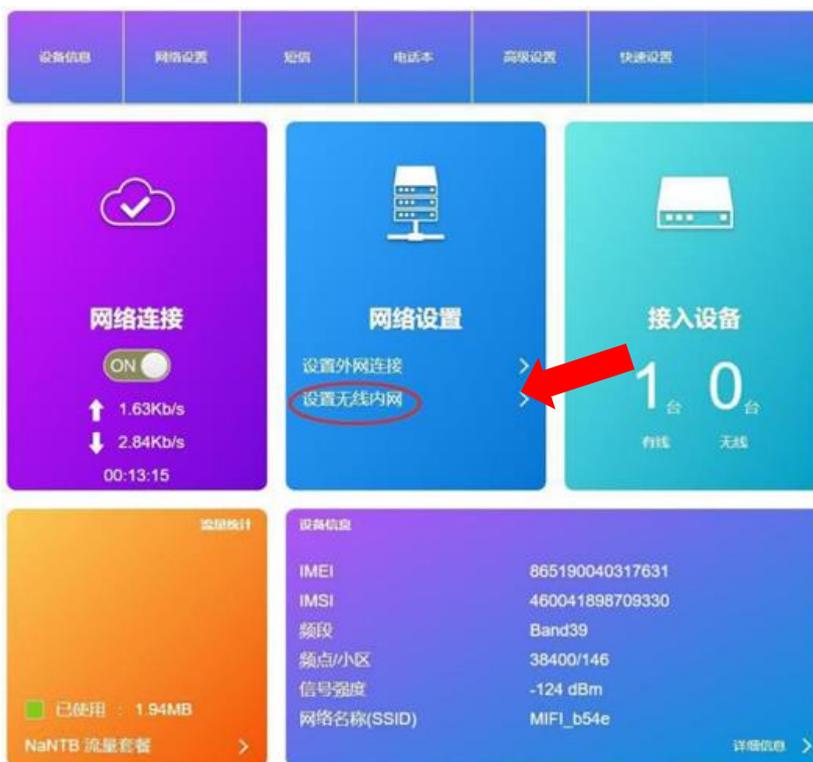
Software Functions

In the device information page, the device information can be found such as firmware version, operation time, IMEI, IMSI, ICCID and other information. The device information page is like below:



1.1 Modify WI-Fi SSId and Password

In the dashboard page, click the “Wireless setting”



In the Wi-Fi setting page, SSID and password can be modify here. After that, click the apply button to save and apply the new settings.



1.2 Modify Gateway setting

In practical applications, if a terminal device or IP camera to be connected is not in the same network segment as the ComFi IX220. The gateway of the ComFi IX220 can be modified in order to make it and the terminal device or IP camera connected in the same network segment.

Click Advanced Settings on the dashboard as the picture below:



In the router section, modify the IP address will change the network segment. Also, in the DHCP IP Pool should also set to the corresponding network segment IP range. After click the Apply button, the system will automatically update and restart. After restart, it will have the new gateway connection. If you use a computer or mobile phone to connect this time, you need to enter the modified gateway IP address in the web browser to log in to the router.



Product Views



Order Information

| Product Model | Product Description |
|---------------|---|
| ComFi IX220 | Complete Product Unit including 1 x IX220 4G Wireless Router |

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