

ComIoT 27

4G Wireless Router Module

- Plug and Play, Automatic Dial-up Internet Access
- Support Wi-Fi 6
- Supports Wide Voltage Power Input of 5-12V
- High Reliability, Low Cost and Low Power Consumption
- Standard Security 34mm * 34mm Mounting Holes for Easy

Product Description

The ComIoT 27 wireless monitoring router core board is a wireless communication module based on a domestic 4G cellular communication and Wi-Fi technology platform, supporting multiple network standards including FDD-LTE, TDD-LTE and WLAN. It is specially designed for plug-and-play wireless monitoring applications. Meanwhile, the ComIoT 27 can also be widely used in front-end data collection and aggregation for various Internet of Things (IoT) scenarios, as well as medium and high-speed Data Transmission Units (DTU). Its standardized interfaces enable direct connection with the control main board for rapid joint debugging to implement application solutions.

The ComIoT 27 is mainly equipped with a power interface, a USB interface, a SIM card slot interface, a soft reset button, a sleep-wakeup interface, an RF interface, and a 10M/100M network interface.

Description of Device Interface Markings

Item	Specification Description	Remarks
Power Interface	Input: DC 5~12V	
USB Interface	1×Type Interface	
UIM Interface	1.8V/3.0V Nano (U)SIM Card	
Ethernet Interface	RJ45, 10/100 M Auto-Negotiation, Configurable LAN/WAN	
UART Interface	1×UART Interface	
Reset Button	Restore factory settings by long pressing for more than 3 seconds	
LED Indicator	Power-on Status	

Hardware Specifications

Main Chip	ASR1803 Platform
Flash	16MB
DDR	32MB

Wi-Fi Protocol		802.11 b/g/n/ax
Ethernet Interface		LAN
Supports Network Frequency Bands	CN	TDD LTE: B34/B38/B39/B40/B41
		FDD LTE: B1/B3/B5/B8
		WCDMA: B1/B5/B8
	AU	TDD LTE: B38/B40/B41
		FDD LTE: B1/B3/B5/B7/B8/B20/B28
		WCDMA: B1/B5/B8
	NA	TDD LTE: B38/B40/B41
		FDD LTE: B1/B2/B3/B4/B5/B7/B8/B28/B12/ B17/B66
		WCDMA: B1/B2/B4/B5/B8
LTE Data Rate		FDD-LTE 150M DL / 50M UL Cat4
		TDD-LTE 130M DL / 35M UL Cat4
LTE Transmit Power		23±2dBm
SIM Card Slot		Supports Nano SIM card
Serial Port		Supports 1 serial port
Ethernet Port		Supports 1 RJ45 Ethernet port
Wi-Fi		2.4G
Wi-Fi Data Rate		286Mbps
Wi-Fi Transmit Power		12±1dBm
Max Number of Connected Devices		32
USB Interface		Supports 1×USB2.0 (Type C)
RESET		Supports factory reset button

Power, Ethernet & USB Pitch	1.25mm
LED Indicators	Wi-Fi: Yellow Light / WAN: Green Light / LTE Signal: Blue Light / Power Indicator: Red Light/4G Light/3G Light
Dial-up Mode	RNDIS
Operating System	Windows/Linux/Android
Operating Temperature	-20°C - 70°C
Operating Voltage	5 ~ 12V
Web Backend	IP: 192.168.1.1, Login Credentials: admin:admin

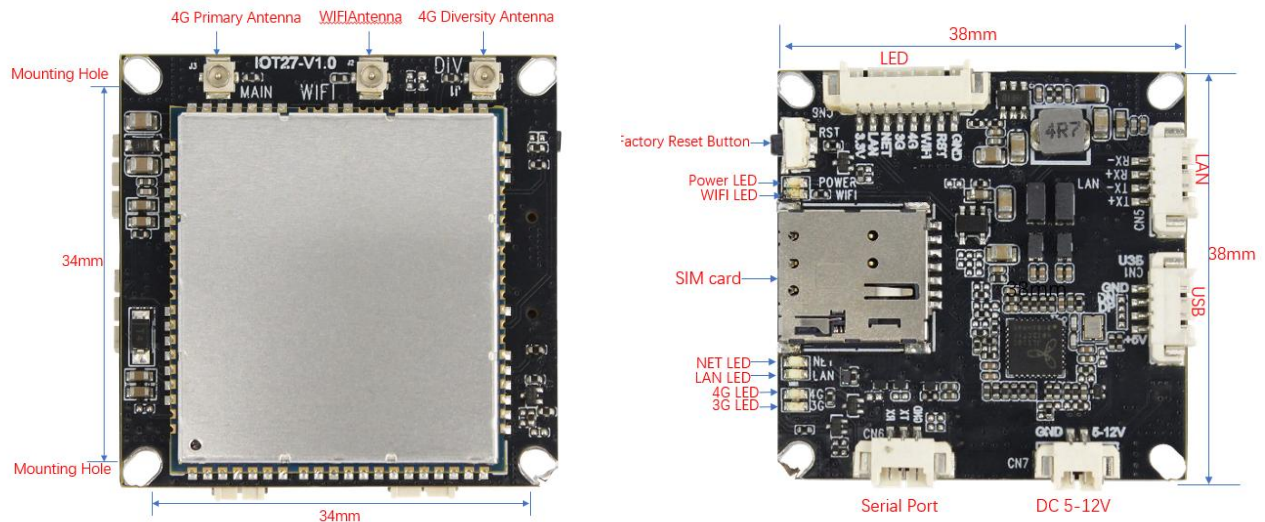
***Frequency Band Description:**

Asia: China, India, Vietnam, Mongolia, Myanmar, Laos, Sri Lanka, Bangladesh, Cambodia, Pakistan, Nigeria, South Africa, Egypt, Ghana, Algeria, Ethiopia, Angola, Benin, Botswana, Burkina Faso, Burundi, Equatorial Guinea, Togo, Eritrea, Cape Verde, Gambia, the Congo, Guinea, Namibia;

Europe, Australia & South America: Australia, New Zealand, Brazil, Argentina, Chile, Bolivia, Colombia, Paraguay, Uruguay (South America); the United Kingdom, Russia and the entire EU (Europe);

Other Regions: Taiwan, Indonesia, Malaysia, Thailand, Singapore, the Philippines, South Korea, Iran, Turkey, Saudi Arabia, Kazakhstan, Uzbekistan, Afghanistan, Iraq, Yemen, Oman, Syria, Brunei; Kenya, Libya

Description of Appearance, Dimensions and Interfaces



NOTE:

1. The DC power supply voltage ranges from 5V to 12V. The POWER indicator stays solid red after power-on; it is recommended to use the matching power adapter.
2. A factory reset button is supported, which can be activated by long pressing for more than 3 seconds after power-on.
3. For FACT (factory reset): connect to ground for 3 seconds and then release. For NRST (module reset): connect to ground for 3 seconds and then release.
4. A 4G network blue indicator is supported. It blinks slowly when no SIM card is inserted or the network is unregistered, and blinks rapidly when the network is registered normally.
5. The Wi-Fi yellow indicator stays solid in standby mode and blinks slowly when connected normally.
6. The Ethernet green indicator lights up when a terminal is connected and blinks during data interaction.
7. Please clear the browser's browsing history before using the WEBUI management function.

Definition of Connector Pins

Pin No.	Pin Name	Function Description
1	GND	Ground
2	RX	UART Data Reception
3	TX	UART Data Transmission
4	3V3	3.3V Level
5	FACT	Factory Reset
6	NRST	Module Reset
7	Wi-Fi_LED	Wi-Fi Indicator
8	LAN_LED	LAN Indicator
9	DC_IN	External DC Power Supply 5 ~ 12V
10	GND	Ground
11	USB_VBUS	USB Detection
12	USB_DM	USB Negative
13	USB_DP	USB Positive
14	GND	Ground
15	LAN_TX+	Ethernet Port Positive Data Transmission
16	LAN_TX-	Ethernet Port Negative Data Transmission
17	LAN_RX+	Ethernet Port Positive Data Reception
18	LAN_RX-	Ethernet Port Negative Data Reception

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