

## ComIoT 26

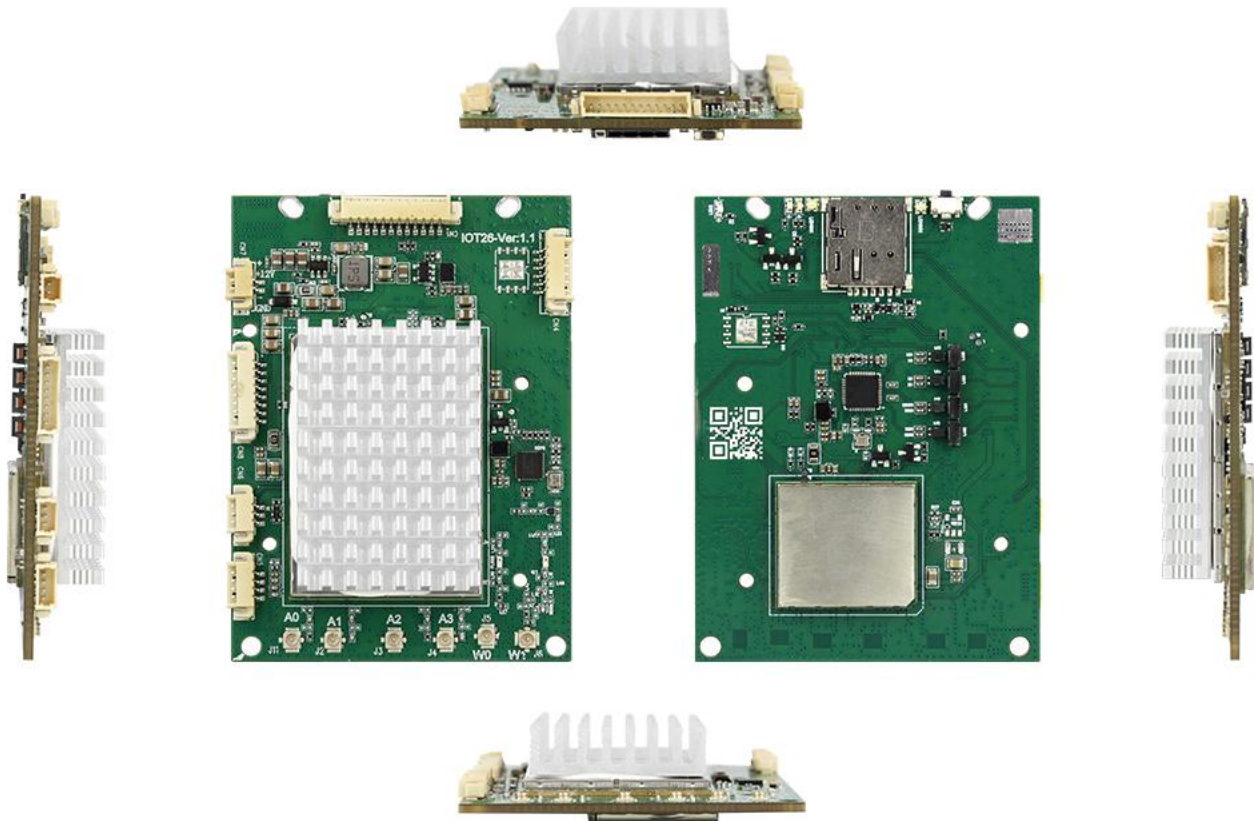
### 5G Routing Core Board

- Rich Interfaces
- Supports 5G SA and NSA Standards
- Supports dual band Wi-Fi 6
- Plug and Play, Automatic Dialing
- Support eSIM Card

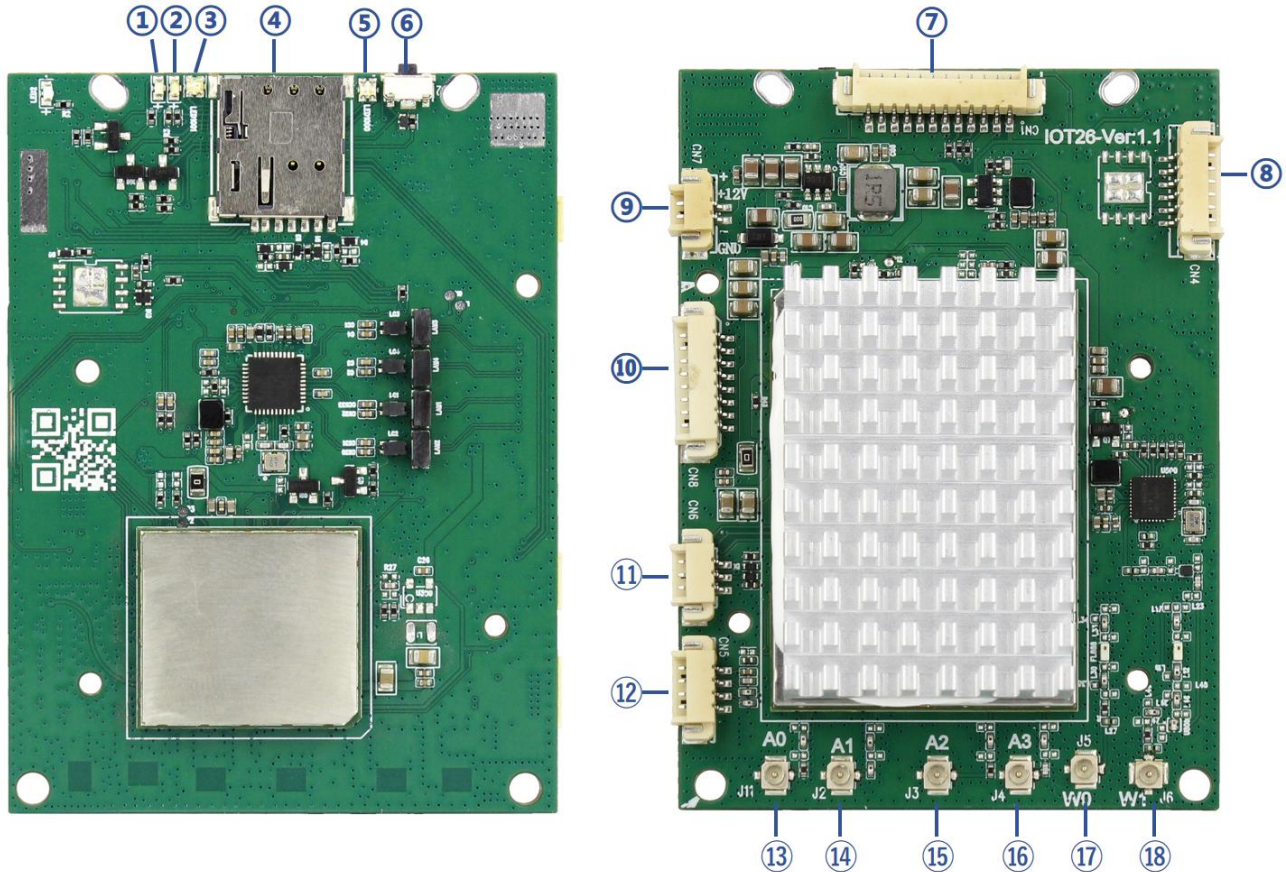
## Product Description

The ComIoT 26 Wireless Router Core Board is a wireless communication component based on a domestically developed 5G cellular communication and Wi-Fi technology platform. It supports multiple network standards including 5G, 4G, and WLAN, and is specifically designed for plug-and-play wireless monitoring applications. Additionally, the ComIoT 26 can be widely used in various IoT front-end data collection and aggregation scenarios, as well as medium-to-high-speed data transmission units (DTUs). Its standardized interfaces enable direct connection to control motherboards for rapid debugging and application solution implementation. The ComIoT 26 primarily features power interfaces, USB interfaces (Debug), SIM card slot interfaces, a soft reset button, UART interfaces, RF interfaces, and 10M / 100M / 1000M network interfaces.

## Product View



## Interface and Indicator Lights



Number	Instructions
1	Wi-Fi light
2	LAN LED
3	4G / 5G Dual-Color LED
4	SIM card slot, Nano card (4FF)
5	SIM and system dual color light
6	Reset button
7	LED expansion interface
8	SIM1 Expansion Interface
9	Power Input



## Product Specifications

Product Model	ComIoT 26
CPU	UNISOC V510
Radio Frequency	UWE5623DU
Flash	2Gb
Memory	4Gb
USIM Card	USIM card: 1.8V / 3.0V Nano SIM 4FF ESIM card (card 2)
Ethernet Port	10 / 100 / 1000Mbps adaptive
Reset Button	Reset button: Press and hold for 8 seconds in the power on state, the signal light will turn off and release, and the router will automatically restart and restore factory settings;
LED Indicator Light	Wi-Fi x 1, LAN light x 1, 4G / 5G dual color light x 1, SIM card and system dual color light x 1
Input Voltage	12V / 2A
Power Consumption	<8W (Full Load)
Size	72mm* 53mm
Weight	About 37 grams
Working Environment	Normal operating temperature: -20 ° C to 50 ° C; storage temperature: -20 ° C to 80 ° C; humidity: 5% to 95% (no condensation)

## Technical Specifications for Cellular Mobile Networks

Wireless Access Technology	NR5G(3GPP R15) support SA / NSA LTE support Cat12 WCDMA support 3GPP R9 DC-HSPA+
Frequency Band Support	NR5G:N1 / 8 / 28 / 41 / 78 FDD: B1 / 3 / 5 / 8 TDD: B34 / 38 / 39 / 40 / 41 UMTS: B1 / B8

Peak Up and Down Rates	NR5G: MAX 2Gbps (DL) / MAX 450Mbps (UL) LTE: MAX 400Mbps (DL) / MAX 150Mbps (UL) WCDMA: MAX 42Mbps (DL) / MAX 11Mbps (UL)
LTE BAND	1.4 / 3 / 5 / 10 / 15 / 20 MHz, Compliant with 3GPP
Modulation Scheme	QPSK / 16-QAM / 64-QAM, Compliant with 3GPP
	QPSK / 16-QAM complies with 3GPP
Reception Sensitivity	-95± 3dBm@NR5G -101± 1dBm@LTE -111± 3dBm@WCDMA Meets 3GPP standards
Maximum Output Power	NR5G: 23dBm±2.7dB LTE FDD: 23dBm±2.7dB LTE TDD: 23dBm±2.7dB WCDMA: 23dBm+2.7dB
Antenna	IPEX Gen 1

## Wi-Fi Technical Specifications

Protocol Standard	IEEE 802.11a / b / g / n / ac / ax
Channel Bandwidth	20MHz, 40MHz
Frequency	2.4GHz+5.8GHz
TX / RX	2T2R
MIMO Antenna	DL: 2X2
Peak Rate	802.11a: 54Mbps 802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 75 / 150 Mbps 802.11ac: 866Mbps 802.11ax: 286 Mbps / 229 Mbps

Reception Sensitivity	<-76dBm at the antenna port,QPSK,11Mbps,1024 Byte PSDU @ 802.11b <-65dBm at the antenna port,64QAM,54Mbps,1024 Byte PSDU @ 802.11g -64dBm at the antenna port,64QAM,65Mbps,4096 Byte PSDU @ 802.11n(HT20) <-61dBm at the antenna port,64QAM,135Mbps,4096 Byte PSDU@ 802.11n(HT40)
Maximum Transmission Power	17dBm @ 802.11b 15dBm @ 802.11g 14dBm @ 802.11n 12dBm @ 802.11ax
Antenna	ipex Gen 1
Users	MAX 16

## Basic Software Functions

Language support	Chinese and English
IP Protocol	IPv4 / IPv6
Message	Sending and receiving SMS / phone book
Dial Mode	Automatic and manual dialing Network mode selection (automatic / 5G NSA / 5G SA / 4G only)
Frequency Band Locking	Lock frequency band search
WLAN	WPA encryption / WPA2 encryption / WPA-WPA2 mixed / WPA2-WPA3 mixed Advanced Settings:Channel / Bandwidth / Maximum Connections
APN	Automatically match APN function based on USIM Support APN management
NAT	Port forwarding, DMZ
Firewall	IP / MAC / URL filters,access control, blocking port scanning / SYN Flood
Diagnosis	TCP Dump, Ping, Trace route

Statistics	LTE network status / networking duration / system running time / device status, DHCP client list, Wi-Fi site list, LTE status, firewall status
Maintain	Data Statistics
System Log	Operation log, Runtime Log, log management

## Order Information

Product Model	ComIoT 26
Product Packaging	Complete Product, Power Adapter, Network Cable, User Manual

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