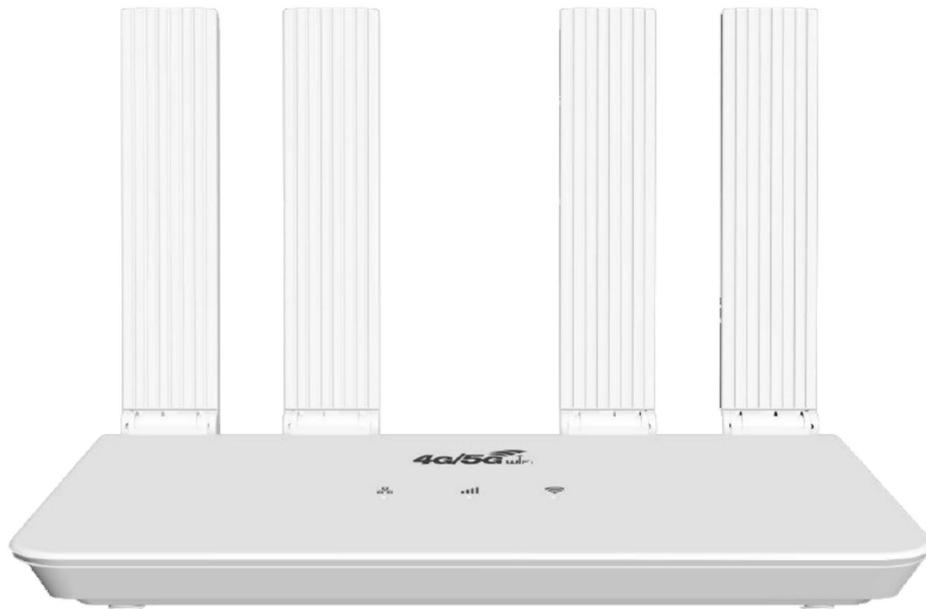# ComFi C50E

5G Wireless Router / CPE

Product Specifications

- Support 5G NR Sub-6 Cellular Network

- Downward compatible 4G and 3G Cellular Network

- External Omni-Directional 5G Antenna, Better Signal and Connectivity

- SIM Plug and Play, Easy Installation for Use

- High Speed Dual Band WiFI6 Data Rate Up to 1800Mbps

- Full Gigabit Ethernet RJ45 Network Port

Product Description

As a wireless products ODM manufacturer, we are proud to introduce our latest product, the ComFi C50E dual-band WiFi6 router. This high-performance 5G home wireless gateway is designed specifically for ISPs and companies looking for a reliable and cost-effective solution to meet the growing demand for wireless broadband data services.

With the ComFi C50E, your customers can experience lightning-fast 5G speeds of up to 2.5 Gbps, providing seamless streaming, downloading, and uploading of large files in seconds. The router also supports the latest WiFi6 standard, which delivers faster speeds, lower latency, and better coverage than previous WiFi standards, even in high-density areas with multiple devices. This makes the C50E an ideal choice for companies with demanding bandwidth requirements or large user bases.

In addition to its advanced wireless capabilities, the ComFi C50E also features multiple Gigabit Ethernet ports, allowing users to connect wired devices such as desktop computers, gaming consoles, and smart TVs to the router. This makes the C50E a versatile solution that can meet a wide range of connectivity needs.

At our manufacturing facility, we use the latest technologies and best practices to ensure that the ComFi C50E meets the highest quality standards. Our experienced engineers and technicians work tirelessly to optimize the design, assembly, and testing processes, ensuring that every unit we produce meets your specifications and requirements.
We understand that time-to-market is critical for our customers, and that's why we offer fast turnaround times and flexible production schedules to meet your needs. Whether you need a small batch of routers or a large-scale production run, we can deliver high-quality products within your timeframe and budget.

At our core, we are a customer-centric company that is committed to delivering exceptional products and services. We work closely with our customers to understand their needs, challenges, and goals, and we strive to exceed their expectations at every turn. Our goal is to build long-term partnerships with our customers based on trust, transparency, and mutual respect.

The ComFi C50E is a powerful and versatile 5G home wireless gateway that is perfect for ISPs and companies looking for a reliable and cost-effective solution to meet their wireless connectivity needs. With its advanced 5G and WiFi6 technologies, multiple Ethernet ports, and robust security features, the C50E offers unparalleled performance, coverage, and peace of mind. And as a wireless products ODM manufacturer, we are committed to delivering exceptional products and services that meet your needs and exceed your expectations.

Hardware Specifications

Main Hardware

Product Model	C50E
SIM Card	1 x SIM/USIM Slot, 1.8V / 3.0V 3FF USIM
Ethernet	3 x RJ45 10/100/1000Mbps Ethernet Port, Auto MDI/X
Power Supply	1 x Power Adapter: 　　　Power Input 100V-240V AC 50/60Hz, 　　　Power Output 12V/2A DC Power
	1 x Standard Power Input Jack, 12VDC
Reset	1 x Pin-hole Reset Button 　　(Long press 5-second to activate factory settings restore)
LED Indicators	1 x SYS LED Indicator
	1 x Cellular signal Strength LED indicator
	1 x WLAN Status LED Indicator
	1 x LAN Status LED Indicator
Dimensions	135mm (L) x 76mm (W) x 15mm (H)
Weight	Approx. 300g (Product with Antenna)
Operating Temperature	-25°C ~ +55°C
Storage Temperature	-30°C ~ +70°C
Operating Humidity	5% ~ 95% (non-condensing)

5G/4G/3G/2G Technical Specifications

Cellular Technology	5G: 3GPP Release 15 NSA/SA operation, Sub-6 GHz CN & EA Version: LTE DL Cat12, UL Cat13 GL Version: LTE DL Cat16, UL Cat18		
Frequencies	CN (China Mainland)	EA (European/LATAM)	GL (Global)
	NSA: n41/n78/n79 **SA:** n1/n28/n41/n77/n78/n79 **LTE-FDD:** B1/B2/B3/B5/B7/B8/ B20/B28 **LTE-TDD:** B34/B38/B39/ B40/B41 **WCDMA:** B1/B2/B5/B8	**NSA:** n1/n3/n7/n38/n40/n41/ n77/n78/n79 **SA:** n1/n3/n7/n8/n20/n28/n38/ n40/n41/n77/n78/n79 **LTE-FDD**: B1/B2/B3/B4/B5/B7/B8/B20 /B28A/B28B/B66 **LTE-TDD:** B38/B40/B41 **WCDMA:** B1/B2/B5/B8	**NSA:** n38/n41/n77/n78/n79 **SA:** n1/n2/n3/n5/n7/n8/n12/ n20/n25/n28/n38/n40/n41/ n48/n66/n71/n77/n78/n79 **LTE-FDD:** B1/B2/B3/B4/B5/B7/B8/B12/ B13/B14/B17/B18/B19/B20/ B25/B26/B28/B29/B30/B32/ B66/B71 **LTE-TDD:** B34/B38/B39/B40/B41/B42/ B43/B48 **LTE-LAA:** B46 **WCDMA:** B1/B2/B3/B4/B5/B8/B19
Data Rate	**5G NSA Sub 6:** Max 2.6Gbps DL / Max 650Mbps UL **5G SA Sub 6:** Max 2Gbps DL / Max 1Gbps UL **LTE:** Max 600Mbls DL / Max 150Mbps UL **WCDMA:** Max 42Mbps DL / Max 11Mbps UL		**5G NSA Sub 6:** Max 2.5Gbps DL / Max 650Mbps UL **5G SA Sub 6:** Max 2.1Gbps DL / Max 900Mbps UL **LTE:** Max 1Gbps DL / Max 200Mbps UL **WCDMA:** Max 42Mbps DL / Max 11Mbps UL
Antenna Type	External Antenna		
Antenna Gain	3dBi		

WIFI Specifications

WIFI Standards	IEEE 802.11a/b/g/n/ac/ax
Frequency	2.4GHz 802.11ax MU-MIMO 573Mbps
	5.GHz 802.11ax MU-MIMO 1201Mbps
Channel Bandwidth	20MHz, 40MHz, 80MHz
Tx / Rx	2T2R 573Mbps (2.4GHz)
	2T2R 1201Mbps (5GHz)
MIMO	2.4GHz DL: 2X2
	5GHz DL: 2X2
Peak Rate	IEEE 802.11b: 1, 2, 5.5, 11Mbps
	IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n: MCS0~MCS5, MIMO up to 300Mbps
	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11ac Wave2, MU-MIMO up to 867Mbps
	IEEE 802.11ax: up to 573Mbps (2.4GHz), up to 1201Mbps (5GHz)
Modulation	802.11b: DQPSK, DBPSK, DSSS, CCK
	802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM
	802.11a: BPSK, QPSK, 16QAM, 64QAM
	802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM (HT20 and HT40)
	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM with OFDM (HT20, HT40, VHT80)
	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, OFDMA (HT20, HT40, VHT80)
Transmit Power	17dBm @ 802.11b 17dBm @ 802.11g 16dBm @ 802.11n 15dBm @ 802.11ac 15dBm @ 802.11ax
Receiver Sensitivity	-85dBm @ 802.11b -70dBm @ 802.11g -70dBm @ 802.11n -70dBm @ 802.11ac -62dBm @ 802.11ax

Antenna Type	Internal Antenna
Concurrent Users	100 Users

Software Specifications

Language Support	Mandarin, English (Support language Customization)
IP Protocol	IPv4 and IPv6
SIM Management	PIN, PUK Management
Network Connection Management	Auto
LTE Scan Mode	Full Band Scan, Frequency Lock, PCI Lock
VPN	L2TP, PPTP
NAT	Port Forwarding
	DMZ
Wi-Fi Mode	AP Mode, Repeater Mode
QoS	QoS
Remote Management	TR069
Firewall	IP/MAC/URL Filter
	Access Control
	SYN Flood
	TCP Port Scan
	Death of Ping
Statistics	LTE Status
	System Up Time
	Device System Status
	DHCP Client List
	Network Connection Status
	Firewall Status
Maintenance	Date & Time Setting
	Reboot
	Restore Factory Settings
	Restore / Backup Configuration File

	Remote Upgrade (TR069)
System Log	Operating Log

Product Views

Order Information

Model	5G Modem Version	External Antenna (5G)	Dual Band Wi-Fi6
ComFi C50E-CN	China	✓	✓
ComFi C50E-EA	Europe	✓	✓
ComFi C50E-GL	Global	✓	✓

Product Packaging:

- 1 x C50E 5G Wireless Router
- 1 x 100V-240V AC 50/60Hz (input), 12V/2A DC (Output) Power Adapter (European Standard Plug)
- 1 x Network Cable
- 1 x User Manual

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