

# ComFi BL5000

High Performance WiFi6 Dual Band Wireless Access Point

## Product Specifications



- 3000Mbps Dual Band Wi-Fi 6 indoor Access Point
- Support 1Gbps Ethernet interface
- Qualcomm IPQ5018 Chipset Solution
- Standard PoE Power Supply / DC Supply (Optional)
- FIT and FAT AP Mod

## Product Description

ComFi BL5000 is a high-performance, high-speed 11ax indoor dual band ceiling mounted AP that provides 2.4G and 5.8GHz dual band wireless services. 2.4G provides a maximum access rate of 574Mbps, while 5G provides a maximum access rate of 2402Mbps.

ComFi BL5000 has high performance wireless characteristics that can get a larger wireless coverage area and better wall penetration performance. ComFi BL5000 has also good compatibility and supports the access of most wireless terminals on the market. Users can use mobile phones, tablets or laptops to easily connect.

ComFi BL5000 supports standard 48V PoE power supply and ceiling installation. The installation and configuration are flexible and convenient. Users only need to spend a short time to do and complete the settings then can enjoy the fun of surfing the Internet.

## Product Features

- Adopting IPQ5018 chip, supporting 160MHz, greatly expands user capacity and can support 128 users.
- The RF adopts high-power external FEM, which has stable performance, wide wireless range, and longer transmission distance.
- Support 2.4GHz 2x2 Wi-Fi (802.11b/g/n/ax), up to 574Mbps data speed rate
- Support 5GHz 2x2 Wi-Fi (802.11a/n/ac/ax), up to 2402Mbps data speed rate
- 1 x Factory Reset Button
- 1 x 3-Color LED Indicators (SYS/RED Color, 2.4GHz/Green Color, 5GHz/Blue Color)
- The heat sink adopts the buckle structure design and the surface layer complete with nano-coating treatment, the heat dissipation effect is well optimized

## Hardware Specifications

Hardware specifications					
Model	BL5000				
CPU	IPQ5018 +QCN6102				
Flash	SPI NOR 8MB SPI NAND 128MB				
DDR3	External 512MB*1				
2.4G Working Frequency	2.4GHz – 2.484GHz				
2.4GWI-FI Standards	802.11 b/g/n/ac/ax				
5G Working Frequency	5.150GHz ~ 5.825GHz				
5GWI-FI Standards	802.11 a/n/ac/ax				
Built in antenna 2.4G	2*2.4G antennas, each with a gain of 4dBi				
Built in antenna5G	2*5.8G antennas, each with a gain of 4dBi				
Max. Data Rate	2.4GHz: 574Mbps 5GHz: 2402Mbps				
2.4G TX Power	802.11b	11M	24±2dBm	1M	24±2dBm
	802.11g	54M	21±2dBm	6M	23±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	22±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
	802.11ax HE20	MCS11	18±2dBm	MCS0	22±2dBm
	802.11ax HE40	MCS11	18±2dBm	MCS0	22±2dBm
5G TX Power	802.11a	54M	19±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	18±2dBm	MCS0	21±2dBm
	802.11n HT40	MCS7	18±2dBm	MCS0	21±2dBm
	802.11ac VHT20	MCS9	17±2dBm	MCS0	21±2dBm
	802.11ac VHT40	MCS9	17±2dBm	MCS0	21±2dBm
	802.11ac VHT80	MCS9	17±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	17±2dBm	MCS0	21±2dBm
	802.11ax HE40	MCS11	17±2dBm	MCS0	21±2dBm
	802.11ax HE80	MCS11	17±2dBm	MCS0	21±2dBm
	802.11ax HE160	MCS11	17±2dBm	MCS0	21±2dBm

2.4G Receiver Sensitivity	802.11b	11M	-85dBm	1M	-90dBm
	802.11g	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-87dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-85dBm
	802.11ax HE20	MCS11	-60dBm	MCS0	-83dBm
	802.11ax HE40	MCS11	-56dBm	MCS0	-83dBm
5G Receiver Sensitivity	802.11a	54M	-72dBm	6M	-92dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-90dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-70dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-68dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-58dBm	MCS0	-85dBm
	802.11ax HE20	MCS11	-62dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-86dBm
	802.11ax HE80	MCS11	-55dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-51dBm	MCS0	-82dBm
2.4G EVM	802.11b:≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n:≤-28 dB; 802.11ax:≤-35 dB				
5G EVM	802.11a:≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac:≤-32 dB; 802.11ax:≤-35 dB				
Frequency Offset (ppm)	±20ppm				
Interface (WAN)	1*10/100/1000/adaptive WAN .Support POE 48V power supply				
Interface (LAN)	1*Console				
External buttons	Reset Button (Long press for 6-10 seconds to restore factory default configuration)				
LED	WAN LED, LAN LED, 3-Color Status LED Indicator (SYS/RED Color, 2.4GHz/Green Color, 5GHz/Blue Color)				
Power Supply	DC2.0 12V --- 1.5A, PoE 802.3at				
Power Consumption	< 16W				
Size	186mm × 186mm × 37mm				
Weight	0.55kg				
Working Environment	Operating Temperature: -10 ° C to 55 ° C; storage temperature: -40 ° C to 70 ° C; humidity: 5% to 95% (non-condensation)				
ESD	Air discharge+/-8K, contact discharge+/-4K				
Surge	Common mode 2K, differential mode 1K				

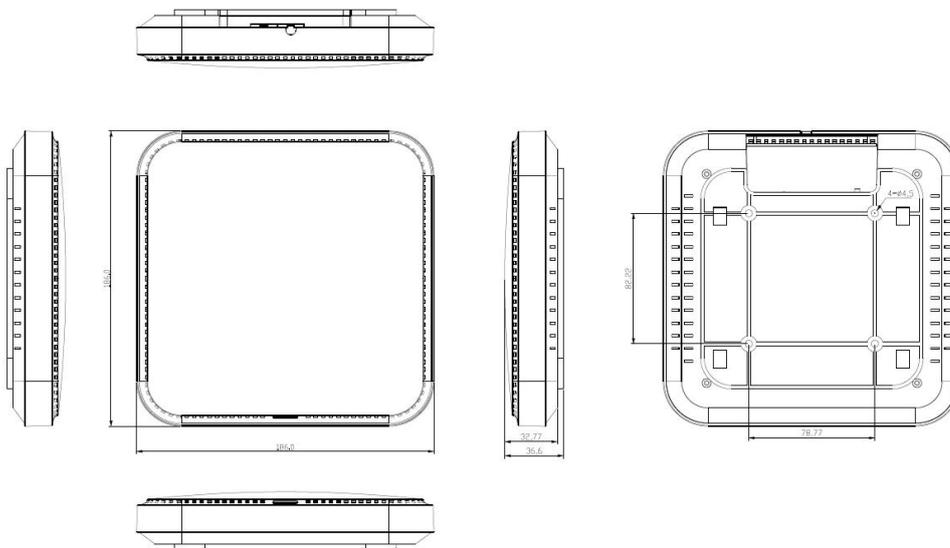
## Software Functions

Page	Working modes: Fat AP mode and Thin AP mode
	Wireless AP download rate, wireless AP upload rate, runtime
	Device information, device description, intranet information, WIFI information
Support Mode	Gateway mode: the device connects to the WAN through the WAN port and then uses static IP, DHCP or PPPOE to access the Internet
	AP mode: The device covers wireless network signals to other clients and devices, and uses Ethernet to connect to other routers to access the wide area network
Wireless Function	SSID Broadcast
	Number of SSIDs: 4 (2.4GHz)+4 (5GHz), supporting Chinese SSIDs
	Hide SSID function
	Wireless Encryption: OPEN、WPA/WPA2PSK-TKIPAES、WPA3PSK-TKIPAES
	Wireless MAC address filtering: supports whitelist
	Spectrum navigation (5G priority)
	WiFi timed shutdown function
	User isolation: wireless network isolation, AP internal isolation
	Transmission power setting
	Wireless client quantity limit
	QoS: WMM
Network Function	Connection method: Static address, obtained from management server, obtained from gateway
	DHCP Server: It can be a built-in DHCP server or an external DHCP server
	Cloud server
	Firewall Function
	PPPOE function: Supports PPPOE dial-up function
Equipment Management	Backup configuration information
	Restore configuration information
	Restore factory settings
	Restarting includes scheduled restarts and immediate restarts
	Firmware Upgrade
	Time management includes system display of time and time synchronization
	System Log
	Fat thin AP switching function

## Product Views



## Product Dimension Diagram



## Order Information

Product Model	Product Description
ComFi BL5000	<p>Complete Product Unit including</p> <ul style="list-style-type: none"> <li>1 x 48V PoE Power Supply (Optional) / 12VDC Power Adapter (Optional)</li> <li>1 x Mounting Panel</li> <li>1 x Network Cable</li> <li>1 x User Manual (Optional)</li> <li>4 x Mounting Screws</li> </ul>

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