

# ComFi BK8300

**High Performance WiFi6 Dual Band High Power  
Indoor Wireless AP**

## Product Specifications



- 1800Mbps Dual Band Wi-Fi6 MU-MIMO
- High Performance Qualcomm IPQ6000 Chipset Solution
- Wi-Fi Connection up to 150 devices
- Standard PoE Power Supply / DC Supply (Optional)
- FIT and FAT AP Mode, Adjustable TX Power, Coverage Radius 100 Meters

## Product Description

ComFi BK8300 is an Indoor Dual Band Wi-Fi6 (802.11ax) Wireless Access Point which suitable for indoor environment use that require high speed performance wireless coverage such as commercial office building, school, hospital, hotel, etc. ComFi BK8300 supports 2x2 802.11ax MU-MIMO, and the maximum concurrent connection rate (Dual band) can reach up to 1800Mbps, which can build a stable and high speed wireless network for users.

ComFi BK8300 has high performance wireless characteristics that can get a larger wireless coverage area and better wall penetration performance. ComFi BK8300 support wireless access up to hundreds of wireless terminals, and meet the wireless application of high density wireless terminals.

ComFi BK8300 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 BK8300 supports integrated with OpenWrt development platform. For teams with software development capabilities but lack of hardware platforms, ComFi BK8300 is a very good choice if they want to develop their own wireless 11ax AP. Users can quickly and easily develop upper-layer applications according to specific needs to create their own unique wireless AP products.

ComFi BK8300 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

- Support ceiling or wall mounting method indoor use.
- 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 1.2Gbps data speed rate.
- 2 x internal dual band Wi-Fi antenna.
- 1 x RJ45 1GbE WAN Port and support 802.at PoE (PD)
- 1 x RJ45 1GbE LAN Port
- 1 x Factory Reset Button
- 4 x Status LED Indicators (PWR/WAN/2.4G/5G)

## Hardware Specifications

Model	BK8300
Dimension	210mm x 210mm x 50mm (L x W x H)
Weight	300g
Installation	Wall / Ceiling Mountable Installation
LED Indicators	PWR / SYS / 2.4GHz / 5GHz
Interfaces	1 x GbE Uplink, Support 802.3at Power Supply 1 x 1 GbE LAN RJ45 Port 1 x Factory Reset Button
Power Input	50V ~ 57V, 802.3at PSE
<b>Environment</b>	
Operating Temperature	-0°C to +45°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5% - 95% (non-condensing)
Air Pressure	86kPa ~ 106kPa Altitude
IP Rating	IP20
Safety Certification	SRRC, Can do according customer's request
<b>Stability</b>	
Annual Failure Rate	AFR < 1.5% (Continuous Operation Status)
<b>Chipset Solution</b>	
CPU	Qualcomm IPQ6000 + QCA8075 + QCN5022 + QCN5052
Flash	32MB SPI Flash / 16MB SPI NOR Flash + 128MB NAND Flash
RAM	512MB DDR3L Memory
<b>Wi-Fi Characteristics</b>	
Working Frequency	2.4GHz Radio: 2.4000GHz ~ 2.4835GHz
	5GHz Radio: 5.150~5.250,5.250~5.350,5.470~5.725, 5.725~5.850GHz
Max. Speed Rate	2.4GHz Radio: 20dBm @ MCS0, 16dBm@MCS11
	5GHz Radio: 20dBm @ MCS0, 16dBm@MCS11

Data Rate	<p>2.4G Radio:</p> <p>802.11b: 1, 2, 5.5, and 11Mbps</p> <p>802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</p> <p>802.11n HT20/ HT40: MCS0~MCS15 (400/ 800ns GI)</p> <p>802.11ax HE20/ HE40: MSC0 ~ MCS11(400/ 800ns GI)</p>											
	<p>5G Radio:</p> <p>802.11a: 6, 9, 12, 18, 24, 36, 48 and 54Mb/s</p> <p>802.11n HT20/ HT40: MCS0~MCS15(400/ 800ns GI)</p> <p>802.11ac VHT20/VHT40/VHT80: MCS0 ~ MCS9(400/ 800ns GI)</p> <p>802.11ax HE20/ HE40/HE80: MSC0 ~ MCS11(400/ 800ns GI)</p>											
Reception Sensitivity	<p>802.11g:</p> <p style="padding-left: 40px;">-92dBm@6Mbps</p> <p style="padding-left: 40px;">-75dBm@54Mbps</p>											
	<p>802.11n:</p> <table border="1" data-bbox="571 965 1321 1144"> <thead> <tr> <th></th> <th>HT20</th> <th>HT40</th> </tr> </thead> <tbody> <tr> <td>MCS0/8/16</td> <td>-90dBm</td> <td>-87dBm</td> </tr> <tr> <td>MCS7/15</td> <td>-71dBm</td> <td>-68dBm</td> </tr> </tbody> </table>		HT20	HT40	MCS0/8/16	-90dBm	-87dBm	MCS7/15	-71dBm	-68dBm		
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<p>802.11a:</p> <p style="padding-left: 40px;">-89dBm@6Mbps</p> <p style="padding-left: 40px;">-74dBm@54Mbps</p>												
<p>802.11ac:</p> <table border="1" data-bbox="571 1417 1342 1597"> <thead> <tr> <th></th> <th>VHT20</th> <th>VHT40</th> <th>VHT80</th> </tr> </thead> <tbody> <tr> <td>MCS0</td> <td>-90dBm</td> <td>-87dBm</td> <td>-84dBm</td> </tr> <tr> <td>MCS8</td> <td>-67dBm</td> <td>-61dBm</td> <td>-58dBm</td> </tr> </tbody> </table>		VHT20	VHT40	VHT80	MCS0	-90dBm	-87dBm	-84dBm	MCS8	-67dBm	-61dBm	-58dBm
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Antenna Specification (Internal)	Frequency (MHz)	2400 ~ 2500	4940 ~ 5850
	Polarization	Horizontal / Vertical	Horizontal / Vertical
	Gain (dBi)	2~3	2~3

## Product Views



## Order Information

Product Model	Product Description
ComFi BK8300	Complete Product Unit including 1 x 48V PoE Power Supply (Optional) / 12VDC Power Adapter (Optional) 1 x Mounting Panel 1 x Network Cable 1 x User Manual (Optional) 4 x Mounting Screws

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