

ComFi BL70

Wi-Fi 6 Indoor Dual Frequency Ceiling AP



Product Overview

ComFi BL70 is a high-performance, high-speed Wi-Fi 6 indoor dual-band ceiling AP that can provide 2.4G and 5.8GHz dual-band wireless services. 2.4G provides a maximum access rate of 574Mbps, and 5G provides a maximum access rate of 2402Mbps .

Product Features

- Supports Wi-Fi 6 , and the maximum concurrent rate of the whole device can reach 3000Mbps .
- Supports hardware watchdog function, automatic recovery of abnormal equipment , maintenance-free.
- Elegant appearance design, hidden port housing and beautiful wiring .
- Support 48V standard PoE , DC Two 12V power supply modes .

Technical Parameters

Hardware Specifications	
Product Model	BL70
CPU	MT7981B+MT7976 CN +7531AE
Flash	SPI NOR 16MB
DDR3	256M
2.4G Operating Frequency Band	2.4GHz ~ 2.484GHz
2.4G Wi-Fi Transmission Protocol	802.11 b / g / n / ax
5G Operating Frequency Band	5.150GHz ~ 5.850GHz
5G Wi-Fi Transmission Protocol	802.11 a / n / ac / ax
2.4G Antenna	Built-in omnidirectional antenna
5G Antenna	Built-in omnidirectional antenna
Maximum Rate	2.4G provides a maximum access rate of 574Mbps, and 5G provides a maximum access rate of 2402Mbps

2.4G Wireless Power	802.11b	11M	$22 \pm 2\text{dBm}$	1M	$22 \pm 2\text{dBm}$
	802.11g	54M	$19 \pm 2\text{dBm}$	6M	$21 \pm 2\text{dBm}$
	802.11n HT20	MCS7	$18 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11n HT40	MCS7	$18 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ax HT20	MCS11	$16 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ax HT40	MCS11	$16 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
5G Wireless Power	802.11a	54M	$19 \pm 2\text{dBm}$	6M	$21 \pm 2\text{dBm}$
	802.11n HT20	MCS7	$18 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11n HT40	MCS7	$18 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ac HT20	MCS7	$17 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ac HT40	MCS7	$17 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ac HT80	MCS9	$17 \pm 2\text{dBm}$	MCS0	$19 \pm 2\text{dBm}$
	802.11ax HT20	MCS11	$16 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ax HT40	MCS11	$16 \pm 2\text{dBm}$	MCS0	$20 \pm 2\text{dBm}$
	802.11ax HT80	MCS11	$16 \pm 2\text{dBm}$	MCS0	$19 \pm 2\text{dBm}$
	802.11ax HT 160	MCS11	$14 \pm 2\text{dBm}$	MCS0	$18 \pm 2\text{dBm}$
2.4G Receiving Sensitivity	802.11b	11M	-87 dBm	1M	-96 dBm
	802.11g	54M	-75 dBm	6M	-93 dBm
	802.11n HT20	MCS7	-73 dBm	MCS0	-92 dBm

	802.11n HT40	MCS7	- 70 dBm	MCS0	-89 dBm
	802.11ax HT20	MCS11	-64 dBm	MCS0	- 92 dBm
	802.11ax HT40	MCS11	- 61 dBm	MCS0	-89 dBm
5G Reception Sensitivity	802.11a	54M	-74dBm	6M	-92dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-90dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-87dBm
	802.11ac HT20	MCS7	-67dBm	MCS0	-91dBm
	802.11ac HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac HT80	MCS9	-60dBm	MCS0	-84dBm
	802.11ax HT20	MCS11	-62dBm	MCS0	-91dBm
	802.11ax HT40	MCS11	-59dBm	MCS0	-89dBm
	802.11ax HT80	MCS11	-56dBm	MCS0	-86dBm
	802.11ax HT 16 0	MCS11	-53 dBm	MCS0	-83 dBm
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 Deviation (ppm)	± 20 ppm				
Interface (WAN)	1 10 / 100 / 1000M adaptive WAN port, support 48V POE power supply				
Interface (LAN)	1 10 / 100 / 1000M adaptive LAN port				
External Buttons	Reset button (press and hold for 6-10 seconds to restore to factory default				

	settings)
Status Indicator	Three-color light (three different colors represent: sys-red, 2.4G-green, 5.8G-blue)
Powerd By	PoE 802.3at , DC2.0 12V / 1.5 A ,
Maximum Power Consumption	< 15W
Product Size	1 86 mm × 186 mm × 37 mm
Weight	0.55kg
Work Environment	I operating temperature: -10 °C to 45 °C; Storage temperature: -40°C to 70°C; Humidity: 5% to 95% (no condensation)
ESD	Air discharge + / - 8 K, contact discharge + / - 6K
Surge	Common mode 2K, differential mode 1K

Software Features

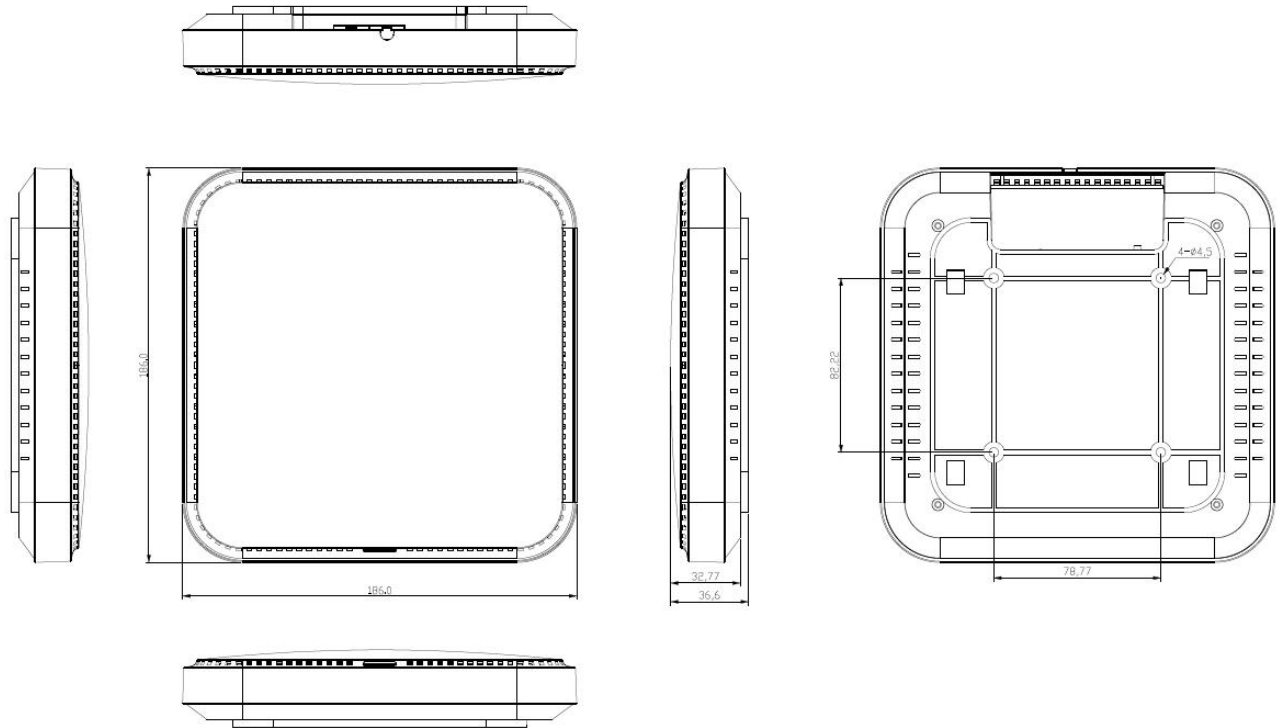
Front Page	Working mode: Fat AP mode and Thin AP mode
	Wireless AP download rate, wireless AP upload rate, running time
	Device information, device description, intranet information, Wi-Fi information
Support Mode	Gateway mode: The device is connected to the WAN through the WAN port and then uses static IP, DHCP or PPPOE to access the Internet
	AP mode: The device covers other clients and devices with wireless network signals, and uses Ethernet to connect to other routers to access the WAN.
Wireless Capabilities	SSID Broadcast
	Number of SSIDs: 4 (2.4GHz) + 4 (5GHz), support Chinese SSID
	Hide SSID function
	Wireless encryption: OPEN , WPA / WPA2PSK-TKIPAES, WPA3PSK-TKIPAES
	Wireless MAC address filtering: support whitelist
	Spectrum navigation (5G first)
	Wi-Fi timer off function
	User isolation: isolation between wireless networks and isolation within APs
	Transmit power setting
	Wireless client number limit

	QoS: WMM
Network Features	Connection method: static address, obtained from the management server, obtained from the gateway
	DHCP server: It can be a built-in DHCP server or an external DHCP server
	Cloud Platform Server
	Firewall function
	PPPOE function: support PPPOE dial-up function
Device Management	Backing up configuration information
	Restore configuration information
	Restore factory settings
	scheduled restart
	Firmware Upgrade
	Time management includes system display time and time synchronization
	System log

Interface Diagram



Product Dimensions



Attachment List

- Host*1
- Screw* 4
- Instruction manual*1
- Certificate of conformity and warranty card*1

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