

ComFi EL800

1800AX WIFI6 Dual Band Wall Mounted Access Point

Product Specifications



- 1800Mbps WiFi6 Wireless Transfer Speed with Dual Band 2.4GHz and 5GHz Wi-Fi Frequency
- 4 x 10/100/1000Mbps Full Gigabit Network Port (LAN)
- OFDMA, MU-MIMO, Beam-Forming, Auto Tx Power Adjustment
- Seamless Roaming Between APs
- Standard 48V PoE Power Input (via WAN Port)
- For Universal Type-86 Wall Socket

Product Description

The ComFi EL800 is a business-grade wall-mounted wireless access point with high building quality and ivory white casing appearance. It brings a high speed dual band Wi-Fi6 access experience with 2.4GHz IEEE 802.11b/g/n/ax and 5GHz IEEE 802.11a/n/ac/ax wireless technology for users. It also has full high speed gigabit network port (1 WAN + 4 LAN GbE RJ45 port) for wired connected application needs like IPTV, Top box, computer, smart device, and others. The ComFi EL800 can switch between FIT/FAT mode and support remote managed and maintained by ACs. It provides business functions like auto-channel and power adjustment that can automatically detect available channels of radios and select the channel with the least interference. Also, smart seamless roaming while the user is moving around in a building in between two or more AP. The ComFi EL800 is suitable to apply in hotels, dormitories, lobbies, lounges, shopping outlets, classrooms, serviced offices, etc.

Key Features

- **1800Mbps High Speed Wi-Fi Experience**
Both 2.4GHz and 5GHz dual-band support the new generation of WiFi6 standard, dual-band concurrent, wireless data rate up to 1800Mbps, through a higher number of sub-carriers, 1024QAM modulation, compared to the previous generation of WiFi5 standard AP wireless data rate increased by 50%.
- **New Generation of WiFi6**
Some new mobile phones, computers, and network cards already support WiFi6 technology, and WiFi6 will soon become the standard configuration of all terminals. AP, as the Internet hub of homes, enterprises, and shops, has also become the general trend to upgrade from the old WiFi5 to WiFi6.
- **Concurrent Dual Band 2.4GHz and 5GHz Wi-Fi**
The 2.4GHz frequency band has strong compatibility and long transmission distance while the 5GHz frequency band has less interference. Dual band wireless transmission rate can up to 1800Mbps, which can meet the needs of modern wireless Internet access in dense environments such as hotels, apartments, dormitories, and villas.
- **Gigabit GbE Network Port**
The gigabit port design greatly improves the wired transmission rate, easily copes with high speed Internet broadband access, and provides a more stable and smooth Internet experience.
- **Long OFDM symbol transmission mechanism**
Wifi6 uses a better Long OFDM Symbol transmission mechanism and 2MHz narrowband transmission, which effectively reduces the terminal packet loss rate and noise interference, improves terminal receiving sensitivity, and increases WIFI coverage.
- **OFDMA effectively reduces latency**
The WLAN channel is subdivided into multiple narrower sub-channels, and multiple users are flexibly occupied by the AP, which reduces the conflict and backoff of multi-user air interface resources in traditional

protocols, effectively reduces network delay, and improves network efficiency.

- **Target Wake Time (TWT) Support**

WiFi6 supports TWT technology, which allows devices to negotiate when to wake up and when to send and receive data. In addition, wireless APs can group client devices into different TWT cycles, increase sleep time, reduce the number of devices competing for wireless media at the same time after waking up, and improve device battery life.

- **Spectrum Navigation and 5GHz Priority**

Automatically calculate the 2.4GHz/5GHz frequency band load information and terminal signal strength, intelligently allocate the frequency band connected to wireless terminals, and guide dual-band wireless terminals to preferentially associate with the 5GHz radio frequency to improve wireless network performance under the premise of ensuring high-quality Internet access experience for users.

- **Standard Power-over-Ethernet (PoE) Support**

Use standard PoE power supply. The networking is more flexible, and there is no need to change the original power line layout, which is convenient for construction and saves deployment costs.

Hardware Specifications

Model	ComFi EL800
CPU	MT7621DAT + MT7905DN + MT7975
Flash	16MB
DDR2	128MB
2.4GHz Wi-Fi Frequency	2.412 ~ 2.484GHz
5GHz Wi-Fi Frequency	5.150GHz~5.850GHz
2.4GHz Wi-Fi Standard	802.11b/g/n/ax MU-MIMO 2T2R
5GHz Wi-Fi Standard	802.11a/n/ac/ax MU-MIMO 2T2R
2.4GHz Wi-Fi Antenna	2dBi Internal Antenna x 2
5GHz Wi-Fi Antenna	2dBi Internal Antenna x 2
SSID Hide	Support
Data Rate	2.4GHz: 600Mbps 5GHz: 1200Mbps
Modulation	OFDM = BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM DSSS = DBPSK, DQPSK, CCK
Max Users	100+

2.4GHz Max. Tx Power	< 20dBm
5GHz Max. Tx Power	< 19dBm
Wireless Functions	Auto-Channel Selection
	Distance Control (802.1x Ack Timeout)
	Multiple SSID (4 SSID)
	BSSID
Operation Mode	AP Mode, Gateway Mode, Repeater Mode
Wi-Fi Encryption	Open, WPA, WPA2, WPA-PSK, WPA2-PSK
WAN	1 x 10/100/1000Mbps WAN Port Auto MDI/X Support IEEE 802.3af 48V PoE
LAN	4 x 10/100/1000Mbps LAN Port Auto MDI/X
Reset	1 x Reset Pin-hole (Long press 10 second to perform factory reset)
PoE	48V (IEEE 802.3af), 0.5A
LED Indicators	SYS, WAN, LANx4 LED indicator
Power Consumption	< 14W
ESD Test	±6KV
Size	86 x 86 x 45MM
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, Windows 10, MAC OS, NetWare, UNIX or Linux
Working Environment	Working Temperature: -20°C to 40°C Max Working Temperature: -30°C to 55°C Storage Temperature: -40°C to 70°C Humidity: 5% ~ 95% (Non condensing)
AC Control Management	Optional: support AP management via AC controller (under FIT AP mode)

Product Views



Order Information

Model	LAN Ethernet Port	FIT/FAT Mode*
ComFi EL800	4 x RJ45 Port	Support
Standard Product Packaging <ul style="list-style-type: none">• 1 x ComFi EL800 Wall Access Point Device• 2 x Installation Screws• 1 x User Manual (Optional)• 1 x Warranty Card		

*FIT AP mode is maintained and managed by AC Controller.

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