ComFi EL680M

1200AC Wall Mounted Access Point

Product Specifications

- 1167Mbps Wireless Transfer Speed with Dual Band 2.4GHz and 5GHz Wi-Fi Frequency

- Wi-Fi On/Off Switch and Led Indicator For Easy to Use

- Seamless Roaming Between APs

- Standard 48V PoE Power Input (via WAN Port)

- For Universal Type-86 Wall Socket

- Support FIT/FAT Mode, Can Be Managed and Maintained By ACs

Product Description

The ComFi EL680M 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-Fi access experience with 2.4GHz IEEE 802.11b/g/n and 5GHz IEEE 802.11ac wireless technology for users. It also has a high speed gigabit network port (GbE RJ45 port) for wired connected application needs like IPTV, Top box, computer, smart device, and others. The ComFi EL680M 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 EL680M is suitable to apply in hotels, dormitories, lobbies, lounges, shopping outlets, classrooms, serviced offices, etc.

Key Features

- Compared with 802.11n AP, the speed is doubled and wider radio coverage.
- Reliable wireless coverage with 2 data streams (transmit and receive) based on 2 x 2 optimized built-in antennas.
- A compact and elegant design that is tangible and yet blends into the environment.
- Runs simultaneously on 2.4GHz (300Mbps) and 5GHz (867Mbps) for maximum wireless throughput.
- Backward compatible with 802.11a, 802.11b, 802.11g and 802.11n network devices.
- Integrated PoE (IEEE 802.3af PoE) reduces deployment overhead cost.
- Enterprise-grade security features include WPA, WPA2, AP Spoofing detection, and 802.1x with RADIUS support
- Internal antennas are factory optimized for maximum RF performance

Hardware Specifications

Model	ComFi EL680M
CPU	MT7621DAT + MT7615DN
Flash	8MB
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 MIMO 2T2R
5GHz Wi-Fi Standard	802.11a/n/ac 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: 300Mbps 5GHz: 867Mbps				
Modulation	OFDM = BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM DSSS = DBPSK, DQPSK, CCK				
Max Users	100+				
2.4GHz Transmit Power	802.11b	11M	15±2dBm	1M	15±2dBm
	802.11g	54M	15±2dBm	6M	15±2dBm
	802.11n HT20	MCS7	15±2dBm	MCS0	15±2dBm
	802.11n HT40	MCS7	14±2dBm	MCS0	15±2dBm
5GHz Transmit Power	802.11a	54M	15±2dBm	6M	15±2dBm
	802.11n HT20	MCS7	15±2dBm	MCS0	15±2dBm
	802.11n HT40	MCS7	14±2dBm	MCS0	15±2dBm
	802.11ac HT80	MCS9	13±2dBm	MCS0	15±2dBm
2.4GHz Reception Sensitivity	802.11b	11M	-82dBm	1M	-94dBm
	802.11g	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
5GHz Reception Sensitivity	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
	802.11ac HT80	MCS9	-58dBm	MCS0	-80dBm
Wireless Functions	Auto-Channel Selection				
	Distance Control (802.1x Ack Timeout)				
	Multiple SSID (4 SSID)				
	BSSID				
2.4GHz Wireless EVM	802.11b: ≤-10dB 802.11g: ≤-25dB 802.11n: ≤-28dB				
5GHz Wireless EVM	802.11a: ≤-25dB 802.11n: ≤-28dB 802.11ac: ≤-32dB				

PPM	±20ppm
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	1 x 10/100/1000Mbps LAN Port Auto MDI/X
Reset	1 x Reset Pin-hole (Short press 1 time: Light Off, Short press 2 time: Light off and Wi-Fi off, Long press 10 second to perform factory reset)
PoE	48V (IEEE 802.3af), 0.5A
LED Indicators	SYS indicator
Power Consumption	< 10W
ESD-I	Air Discharge: ±4KV
Surge	Common Mode: ±2KV
Size	86 x 86 x 35MM
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 55°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	WIFi ON/OFF Switch	LAN Ethernet Port	FIT/FAT Mode*
ComFi EL680M	✓	✓	✓
Standard Product Packaging • 1 x ComFi EL680M Wall Access Point Device • 2 x Installation Screws • 1 x User Manual • 1 x Warranty Card			

*FIT AP mode is maintained and managed by ACs.

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