
Product Specification

Model: AX850SFP



1、 Brand and manufacturer

Brand: LINBLENET

Manufacturer: Shenzhen Libtor Technology Co., Ltd.

LOGO: LINBLENET

2、 Model and version

Model: AX850SFP

Version: V1.1

3、 Overview and features

Overview

The AX850SFP is a high-performance Wi-Fi 6 indoor dual-band ceiling access point with 6 spatial streams (2×2 on 2.4 GHz + 4×4 on 5 GHz). It provides concurrent 2.4 GHz and 5 GHz service at up to 574 Mbps and up to 4804 Mbps respectively — close to 5400 Mbps in total — and supports up to 192 concurrent clients in high-density deployments.

Features

- Higher link quality and throughput — up to 5400 Mbps concurrent data rate.
- Qualcomm chipset with 160 MHz channel width — verified to serve 192 concurrent clients.
- Clip-on heat sink with a special surface coating for better heat dissipation.
- High-power external FEM for stable RF performance and wider coverage.
- Powered by PoE (802.3bt) or DC — flexible installation.

4、 Specifications

Specifications					
Model	AX850SFP				
CPU	IPQ5018+QCN9024+QCA8337				
Flash	SPI NOR 8MB SPI NAND 128MB				
DDR3L	512MB×1				
2.4 GHz frequency band	2.4GHz ~ 2.484GHz				
2.4 GHz Wi-Fi protocol	802.11 b / g / n / ax				
5 GHz frequency band	5.150GHz ~ 5.850GHz				
5 GHz Wi-Fi protocol	802.11 a / n / ac / ax				
Internal dual-band antennas	2 × 2.4/5 GHz dual-band antennas, 4 dBi each				
Internal 5 GHz antennas	2 × 5 GHz antennas, 4 dBi each				
Max. data rate	574 Mbps (2.4 GHz) / 4800 Mbps (5 GHz)				
Max. concurrent clients	192				
2.4 GHz TX power	802.11b	11M	22±2dBm	1M	22±2dBm
	802.11g	54M	21±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	21±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	21±2dBm
	802.11ax HE40	MCS11	19±2dBm	MCS0	21±2dBm
5 GHz TX power	802.11a	54M	21±2dBm	6M	23±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	22±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
	802.11ac VHT20	MCS9	20±2dBm	MCS0	22±2dBm
	802.11ac VHT40	MCS9	19±2dBm	MCS0	21±2dBm
	802.11ac VHT80	MCS9	19±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	19±2dBm	MCS0	21±2dBm
	802.11ax HE40	MCS11	18±2dBm	MCS0	21±2dBm

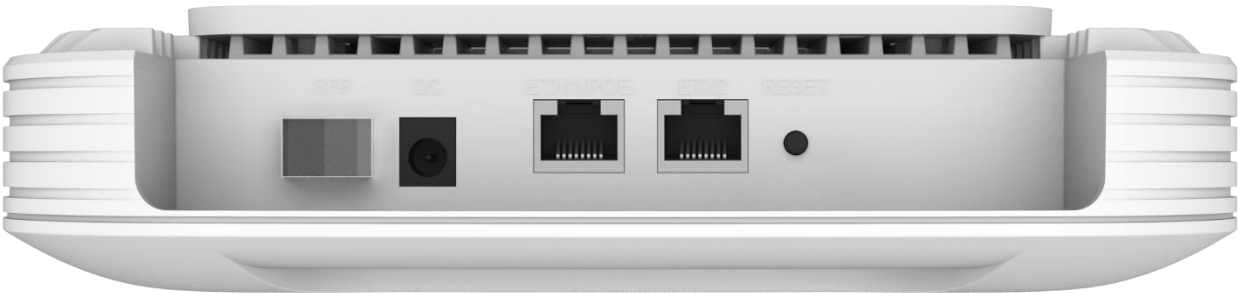
	802.11ax HE80	MCS11	18±2dBm	MCS0	20±2dBm
	802.11ax HE160	MCS11	17±2dBm	MCS0	20±2dBm
2.4 GHz RX sensitivity	802.11b	11M	-87dBm	1M	-94dBm
	802.11g	54M	-75dBm	6M	-88dBm
	802.11n HT20	MCS7	-75dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-64dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-61dBm	MCS0	-88dBm
5 GHz RX sensitivity	802.11a	54M	-75dBm	6M	-90dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-61dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-56dBm	MCS0	-88dBm
	802.11ax HE160	MCS11	-54dBm	MCS0	-86dBm
2.4GHz EVM	802.11b:≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n:≤-28 dB; 802.11ax:≤-35 dB				
5GHz EVM	802.11a:≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac:≤-32 dB; 802.11ax:≤-35 dB				
Frequency offset (ppm)	±20ppm				
SFP interface	1 × 10/100/1000 Mbps SFP optical port				
WAN/LAN interface	1 × 10/100/1000 Mbps auto-sensing WAN/LAN port, 48 V PoE input				
LAN interface	1 × 10/100/1000 Mbps auto-sensing LAN port				
Buttons	Reset — short press toggles the LEDs; hold 6–10 s to restore factory defaults				
Power input	DC2.0 12V/2A, PoE 802.3at				
Max. power consumption	<22W				
LED indicators	WAN (green, front): on when link is up, off when down, blinking on activity LAN (green, front): on when link is up, off when down, blinking on activity Wi-Fi (green/blue, front): green for 2.4 GHz, blue for 5 GHz; off when the band is disabled, blinking on activity				

	SFP (green, front): on when link is up, off when down, blinking on activity Power/SYS (red/green, front): red on power-up, then red off and green on once the system has started
Dimensions	208mm × 208mm × 46mm
Weight	Net weight: 550 g
Environment	Operating: –10 °C to 40 °C; storage: –40 °C to 70 °C; humidity 5%–95% (non-condensing)
ESD	Air ±8 kV, contact ±6 kV
Surge	Common mode 2 kV, differential mode 1 kV

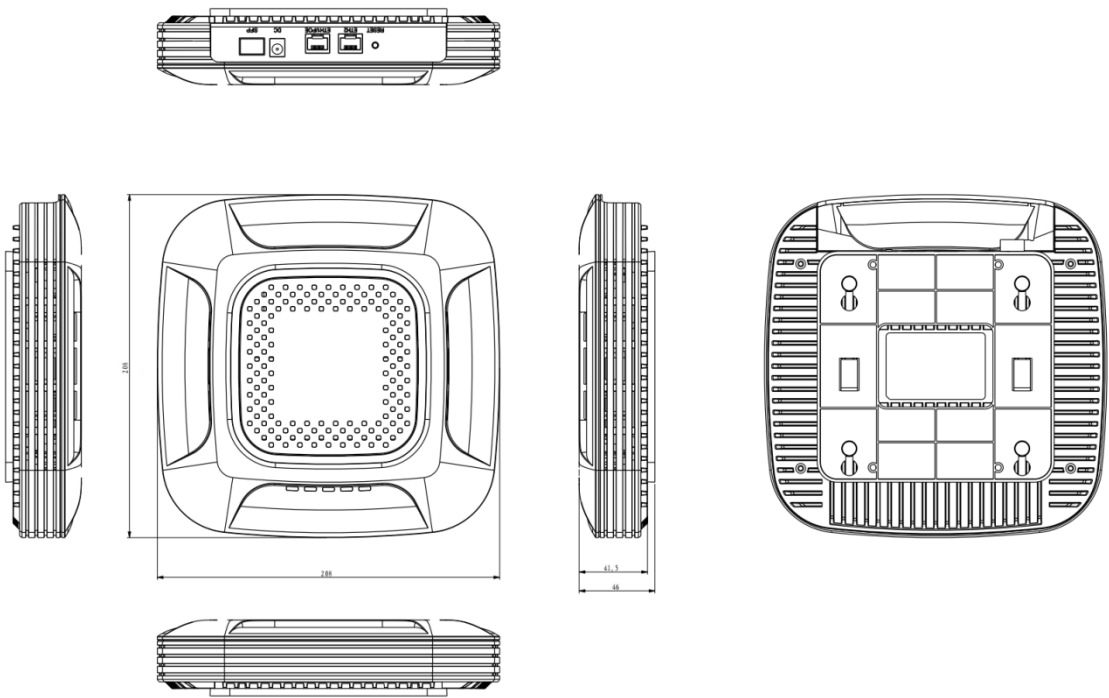
5、 Software features

Home	Operating mode: fat AP and thin AP
	AP download rate, AP upload rate, uptime
	Device info, device description, LAN info, Wi-Fi info
Supported modes	Gateway mode — connects to the WAN through the WAN port using static IP, DHCP or PPPoE
	AP mode — provides wireless coverage to clients and reaches the WAN through an Ethernet uplink to another router
Wireless	SSID broadcast
	SSIDs: 4 (2.4 GHz) + 4 (5 GHz); UTF-8 SSID supported
	Hidden SSID
	Encryption: Open, WPA/WPA2-PSK TKIP/AES, WPA3-PSK AES
	Wireless MAC filtering: whitelist
	Band steering (5 GHz preferred)
	Wi-Fi schedule — timed shutdown
	Client isolation — between SSIDs and within the AP
	TX power setting
	Max. clients per SSID
	QoS: WMM
Network	Connection: static address, from management server, from gateway
	DHCP server: internal or external
	Cloud platform
	Firewall
	PPPoE dial-up
Device management	Back up configuration
	Restore configuration
	Factory reset
	Reboot — scheduled or immediate
	Firmware upgrade
	Time management — system time and time sync
	System log
	Fat / thin AP switching

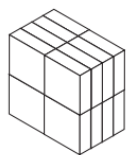
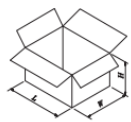
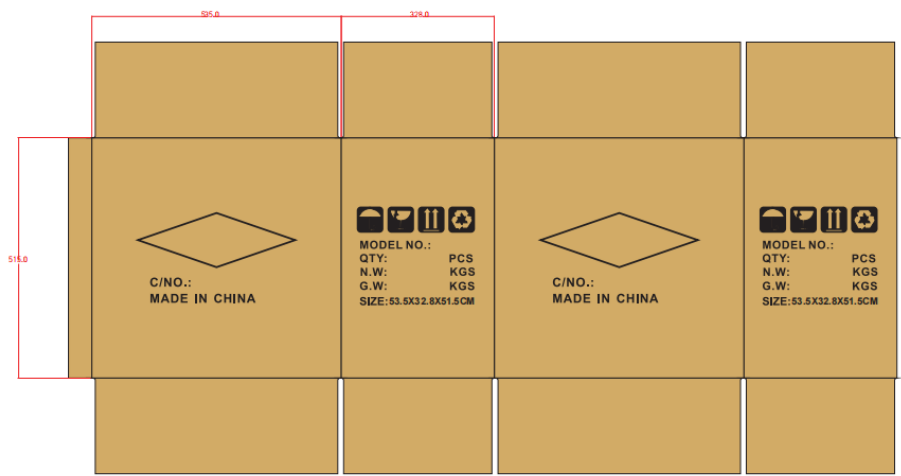
6、 Interface diagram



7、 Outline drawing



8、Carton、 Gift box outline drawing



彩盒放置示意图

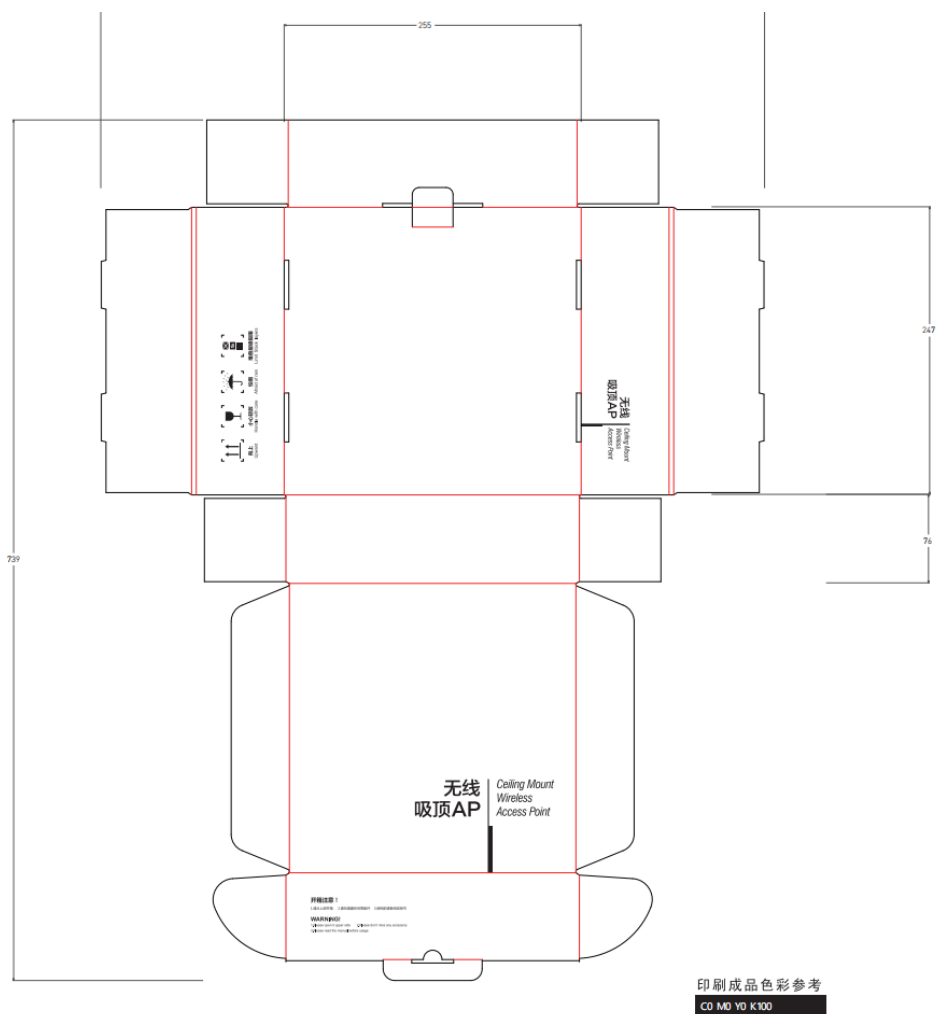
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规格：53.5x32.8x51.5CM

彩盒尺寸：260X248X77mm

材质 K=K 加强芯 (面纸160g; 坑纸140g; 中格纸90g; 坑纸140g; 底纸160g) 表面爆破强度15公斤

型号:AX840-XKP5 品牌：中性



文件比例：一比一

成品尺寸：255X247X76mm

包装材质：350g玖龙纸裱K9M
坑纸125g加强芯 底纸150g

要求单色印刷，色值为：C0 M0 Y0 K100

公差：±1mm

9、 Packing list

Main unit*1

Screws*4

User manual*1

Certificate of conformity and warranty card*1