

ALX850A/B — Wi-Fi Controller

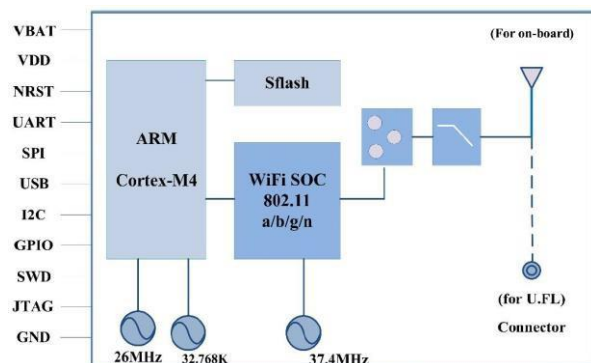
The ALX850A/B is a series of small, low power consumption, self-contained certified 2.4G/5G dual-band network controllers that can be used through UART, USB, SPI and other Interfaces to establish Internet connection to your devices. This series of controllers is the ideal solution for equipment manufacturers in the healthcare, industrial control, home appliances, and smart energy industries.



ALX850A/B

28mm(W)*14.3mm(D)*2.2mm(H)

System Architecture



Highlights

- Wi-Fi 802.11, 2.4G/5G bands
- Multi-interfaces: UART, SPI, USB
- Multi-Socket TCP/UDP connection
- Network configuration APP-Flashlink
- Wi-Fi station and SoftAP dual modes
- Roaming (optimal trigger mechanism)
- Enterprise Security - WPA/WPA2 - Enterprise or 802.1x/EAPoL
- OTA upgrades
- Working temperature: -30°C to +85°C
- FCC and CE compliance
- RoHS certification

Applications

- Environment and Energy
- Medical and Health
- Industrial control and Monitoring
- Smart city, Smart home
- Wireless sensing network
- Wireless audio and video
- Smart Robots & Toys
- And more ...

Contact

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ALX850A/B Specification

Model Name		ALX850A/B
Size(mm).		28 x 14.3 x 2.2
Wi-Fi technology		IEEE802.11 b/g/n
Frequency Band		2.4G & 5G
MCU	Core	ARM [®] Cortex [®] - M4@100MHz
	Memory	128KB
	ROM	512KB
Flash Memory		1MB
Interfaces		UART, SPI, USB, I2C, ADC, GPIO
TX Power (dBm) *	2.4G(b/g/n)	+19.5, +18, +16.5
	5G(b/g/n)	+19, +16.5
RX Sensitivity (dBm) *	2.4G(b/g/n)	-95, -92, -92
	5G(b/g/n)	-90.5, -90.5
Power Consumption		-75 mA @ 500Kbps
Antenna		A, PCB antenna B, external antenna, U.FL connector supported
Voltage		3.3V (±10%)
Working Temperature		-30°C ~ +85°C

ALX850A/B Software Features

Model Name		ALX850A/B
Working Mode	Pass-through	Y
	ACM*	Y
	Pass-through& ACM	Y
Wi-Fi Security		WEP, WPA/WPA2-Personal & Enterprise(EAPoL)
Network Protocol		TCP/UDP, IP, HTTP, DHCP, DNS, CoAP, LWM2M
Low Power Consumption		Y
Roaming		Y
station & SoftAP Mode		Y
WeChat – AirKiss		Y
Positioning Technology		Y
Audio Technology		Y

* **Note:** Please contact your local sales office or distributors for more information.

About Alinket Technology, INC.,

Alinket offers a range of leading cloud-connected wireless communication controllers including Wi-Fi, Bluetooth, BLE, and Wi-Fi + BT/BLE. Alinket is building an effective eco-system for the IOT world.

