

## ALX855B — Wi-Fi Controller

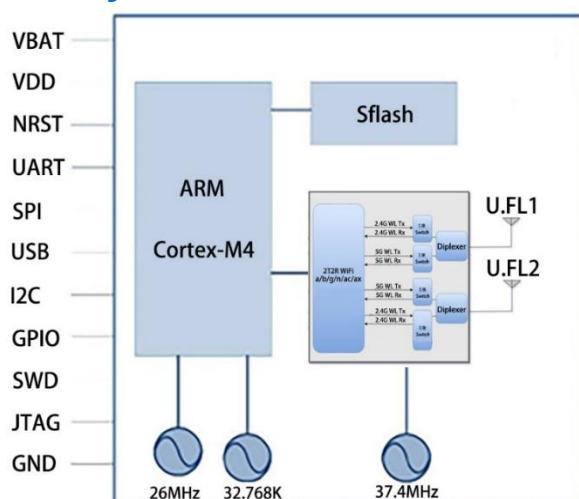
The Alinket ALX855B is a series of small, low power consumption, self-contained certified 2.4g /5G dual-band network controllers. It can set up network connection through UART, USB, SPI and other interfaces. This series of controllers is the ideal solution for equipment manufacturers in the healthcare, industrial controls, home appliances and smart energy industries.



### ALX855B

37mm(W)\*21mm(D)\*2.2mm(H)

### System Architecture



### Applications

- Environment and Energy
- Medicine and Health
- Industrial control and Monitoring

### Contact

For more information, please contact: Alinket Electronic Technology (Shanghai) Co., Ltd.

Tel: +86 21 58651708, E-Mail to [sales@alinket.com](mailto:sales@alinket.com), or visit our website at [www.alinket.com](http://www.alinket.com).

### Highlights

- 2T2R, IEEE802.11 ac/a/b/g/n, WLAN 2.4GHz/5GHz band
- Multi-interfaces: UART, SPI, USB
- Multi-Socket TCP/UDP connection
- Network configuration app-Flashlink
- Support Wi-Fi station and SoftAP dual mode
- Roaming (optimal trigger mechanism)
- Enterprise security - WPA / WPA2 enterprise or 802.1x/eapol
- Support OTA upgrade
- Working Temperature: -30°C ~ +85°C
- FCC and CE compliance
- RoHS certification

- Smart city and Smart home
- Wireless sensor network
- Wireless audio and video
- And more...

## ALX855B Specification

Model Name		ALX855B
Size (mm)		37 x 21 x 2.2
Wi-Fi Technology		2T2R,802.11 a/b/g/n/ac Wi-Fi
Frequency Band		2.400 GHz ~ 2.4835 GHz (2.4GHz ISM Band) 5.15~5.35GHz、5.47~5.725GHz、5.725~5.85GHz (5GHz UNII Band)
TX Power (dBm)	2.4G(b/g/n)	+17.5, +17, +16
	5G(a/n/ac)	+16, +15.5, +14
RX Sensitivity (dBm)	2.4G(b/g/n)	-88, -84, -78
	5G(a/n/ac)	-83, -78, -77
MCU	Core	ARM® Cortex®- M4@180MHz
	Memory	256KB
	ROM	1024KB
Interfaces		UART, SPI, USB, I2C, ADC, GPIO
Voltage		3.3V (±10%)
Working Temperature		-30°C ~ +85°C
Working Humidity		10% ~ 90%

## ALX855B Software Features

Model Name		ALX855B
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 Technology		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.

