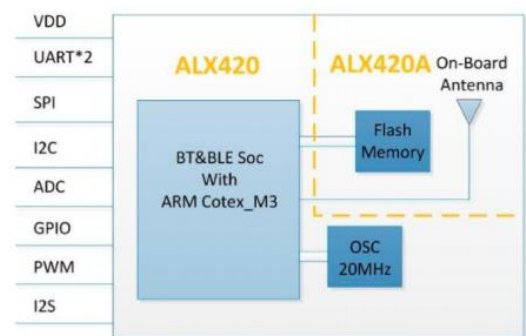


ALX420A — Bluetooth controller

Alinket ALX420A is a small, low-power, self-contained certified bt4.1 (BR / EDR / LE) dual-mode controller that provides simple HCI UART and puart to Bluetooth connections. The controller is an ideal solution for equipment manufacturers in the industries of medical care, industrial control, household appliances and intelligent energy systems to seek wireless connection



16mm x 10mm x 2.4mm



■ Product features

- Bluetooth version 4.1 support - dual mode (BR / EDR / LE)
- Host interface: UART, SPI
- It supports master-slave mode, in which 5 slaves can be connected at the same time
- Support the slave master slave bridging function or ble gateway

- Ble MIDI, BT A2DP, BT rfcomm, and MFI support
- Ble MIDI delay less than 10ms
- Highly sensitive receiving PCB antenna with a coverage of 50M
- Support over the air (OTA) software upgrade
- Temperature: - 30 ° C to + 85 ° C
- RoHS / CE / FCC certification

■ **Application area**

- Medical care: heart rate monitoring, blood pressure monitoring, weight meter, thermometer
- Wireless charging
- Remote control
- Positioning, distance detection, etc

➤ Intelligent robot & Toy

➤ More others

■ Description

Module name		ALX420A
Including shell size		16 x 10 x 2.4(mm)
Bluetooth Technology		BLE 4.1 Dual Mode(BR/EDR/LE)
frequency band		2402-2480MHz
Microprogram controller	kernel	ARM® Cortex®- M3
	Memory	352KB
	read-only memory	848KB
Flash Memory		1MB
Interface		UART, SPI, I2S, I2C, ADC,GPIO
Transmit power (DBM)*	BR/EDR	+12dBm/+9dBm
	LE	+9dBm
Receiving sensitivity (DBM)*	BR/EDR	-95.5dBm/-89.5dBm
	LE	-96.5dBm
Power consumption*		~10 Milliampere @ 5Kbps
Coverage		50m
antenna		PCB antenna
Voltage		3.3V (±10%)
temperature		-30°C ~ +85°C

■ Software features

Module type		ALX420A Single mode	ALX420A Bimodal
Working mode	transparent transmission	Y	Y
	ACM	Y	Y

Main mode	Slave mode	Y	
	Master slave 1 to 1	Y	/
	Master slave 1 pair n	Y(N up to 5)	
Low power Bluetooth features		MIDI, HID, HOGT(HID over GATT)	
Classic Bluetooth features		RFCOMM, A2DP, AVRCP, iAP2(MFi)	

■ Technical support

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About Alinket Technology, INC.

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