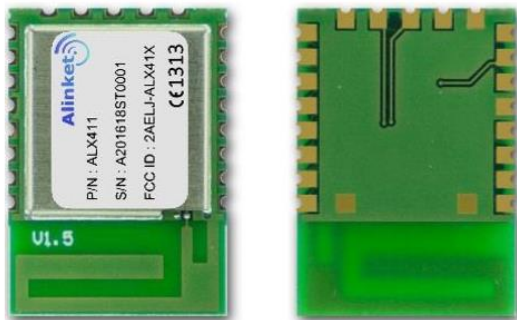


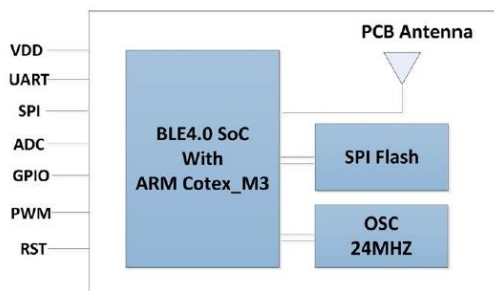
ALX411 – Alinket BLE4.0 IoT & MIDI Controller

The ALX411 is a small, low-powered, self-contained, certified BLE controllers that provide simple UART-to-BLE, SPI-to-BLE connectivity. These controllers are ideal solutions for device manufacturers who are looking for wireless connectivity in medical and healthcare applications, industrial control equipment, home appliances and smart energy systems.



19mm (W) * 13.5mm (D) * 1.8mm (H)

System Architecture



Contact

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

Tel: +86 21 61048128, E-Mail to sales@alinket.com, or visit our website at www.alinket.com.

Highlights

- Bluetooth 4.0 – Low Energy(BLE 4.0)
- Host interfaces: UART, SPI
- Support both Slave & Master mode
- Master mode supports up to 6 slaves
- Support Slave-Master-Slave bridge function or BLE Gateway
- BLE MIDI, HID over GATT
- BLE MIDI Time Latency<10ms
- PCB antenna with high receive sensitivity, coverage range 50 meters
- Over-the-Air (OTA) upgrade support
- Temperature: -30°C to +85°C
- ROHS/CE/FCC Certification

Applications

- Health & fitness equipment including heart rate monitors, blood pressure, weight scales, thermometers
- Control, automation, security and Alliance for Wireless Power wireless charging
- Consumer: toys, robots, remote controls
- Location, proximity detection
- And more...

ALX411 Specification

Model		ALX411
Size (mm)		19 x 13.5 x 1.8
Bluetooth		BLE 4.0
Frequency Band		2402-2480MHz
MCU	Core	ARM® Cortex®- M3
	RAM	60KB
	ROM	320KB
Flash (On-Board)		1MB
Interfaces	UART	Y
	SPI	Y
	ADC	10bit x 5, multiplexing with GPIO
	GPIO	x 11
Tx Power (dBm) *		+4
Rx Sensitivity (dBm) *		-100 *
Power Consumption *		~1mA @ 5Kbps *
Coverage Range		50m *
Antenna		PCB Antenna
Voltage		3.3V (±10%)
Temperature		-30°C to +85°C

ALX411 Software Features

Model		ALX411
Work Mode	Transparent	Y
	ACM *	Y
Master Mode	Slave Only	Y
	Master to Slave 1:1	Y
	Master to Slave 1:N	Y(N up to 6)
	Slave-Master-Slave Bridge or BLE Gateway	Y
BLE Profile		Battery Status, Blood Pressure, Proximity, Thermometer, Glucose *

* 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.

