

ALX412 – Alinket BLE5.0 IoT & MIDI Controller

The ALX412 is a small, low-powered, self-contained, certified BLE controllers that provide simple UART-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.

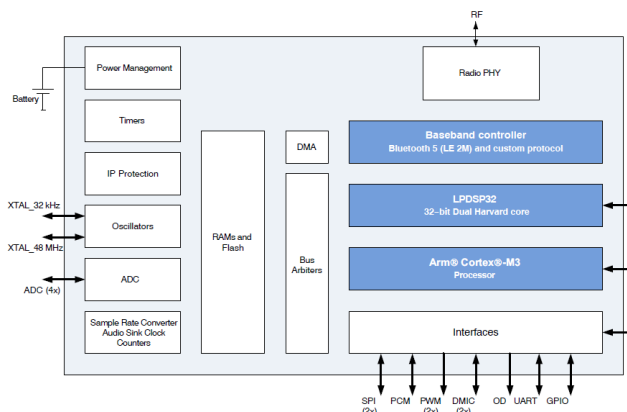


19mm (W) * 13.5mm (D) * 1.8mm (H)

■ Highlights

- Bluetooth 5.0 – Low Energy(BLE 5.0)
- Host interfaces: UART
- 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

■ System Architecture



■ 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...

■ 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.

ALX412 Specification

Model		ALX412
Size (mm)		19 x 13.5 x 1.8
Bluetooth		BLE 5.0
Frequency Band		2402-2480MHz
MCU	Core	ARM® Cortex®- M3 + LPDSP32
	RAM	164KB
	Flash	384KB
Interfaces	UART	Y
	I2C	Y
	ADC	Y
	GPIO	Y
Tx Power (dBm) *		+4
RxSensitivity(dBm)*		-100 *
Power Consumption *		~1mA @ 5Kbps *
Coverage Range		50m *
Antenna		PCB Antenna
Voltage		3.3V (±10%)
Temperature		-30°C to +85°C

ALX412 Software Features

Model		ALX412
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 5)
	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.

