

## CYKEO-M1LX2

## UHF Embedded RFID Modules



UHF RF module is a high-performance, highly integrated RFID reader IC that integrates functions such as an analog RF front end and a baseband digital signal processing module. Users only need to provide power and communication interface, through the API function library control module work, while the module provides a rich I/O interface, to achieve peripheral device control. Excellent performance can be suitable for various application scenarios

- Support a variety of protocols: ISO 18000-6C/EPC C1G2, ISO 18000-6B, GB/T29768-2013(extensible support).
- Intensive reading: the maximum output of the port is 26dBm, the power can be set to cope with the intensive use environment, and the multi-label recognition algorithm can identify more than 200 photos per second.
- Can work at fixed frequency or frequency hopping, the output power is adjustable, and the adjustment step is 1dBz.
- Support label data filtering, anti-collision protocols, and multi-label identification.
- Full frequency band, high power, high sensitivity, accurate power, zero configuration can obtain the best performance.
- IPEX antenna port output (or stamp hole)

## ● Specification

Model	CYKEO-M1LX2
<b>  RF SPECIFICATION</b>	
Identification Method	UHF
Frequency Range	840MHz~960MHz
Protocol	EPC C1G2, ISO 18000-6B, ISO 18000-6C, GB/T29768-2013 (optional)
Frequency Support	GB: 920MHz~925MHz、 GB: 840MHz~845MHz、 FCC: 902MHz~928MHz、 ETSI: 865MHz~868MHz (Optional)
Communication interface	IPEX antenna port output (or stamp hole)
Modulation Mode	DSB-ASK, PR-ASK
RF Interface	1 Changle
RF Interface Power	26dbm±1dbm (Max)
R/W Capability	Read: 0-1000 cm; Write: 0-400 cm, (8dbi antenna test)
Function	RFID read & write, Multiple label identification, Label data filtering, RSSI (For more RFID tag features, please use RFID application software)
<b>  BASIC</b>	
Material	Aluminum profile housing
Power	3.5V 5A 2.2W
Working Humidity	10%RH~90%RH
Operat Temperature	0 °C ~ 60 °C
Size	50 x 29 x 4.9 mm
Weight	About 20g

- Interface Definition

GND	Power ground
VCC	Power input (DC3.5-5V)
UART_TXD	UART TTL level (3.3V) Main communication
UART_RXD	UART TTL level (3.3V) Main communication
GPIO-3	GPIO Input/output
GPIO-4	GPIO Input/output
GPIO-1	GPIO Input/output
En	Power enable (default power-on enable, high level enable)
GND	Power ground
USB_DM	USB communication
USB_DP	USB communication
GND	Power ground
GND	Power ground
ANT	Rf output (need to rotate capacitor position)

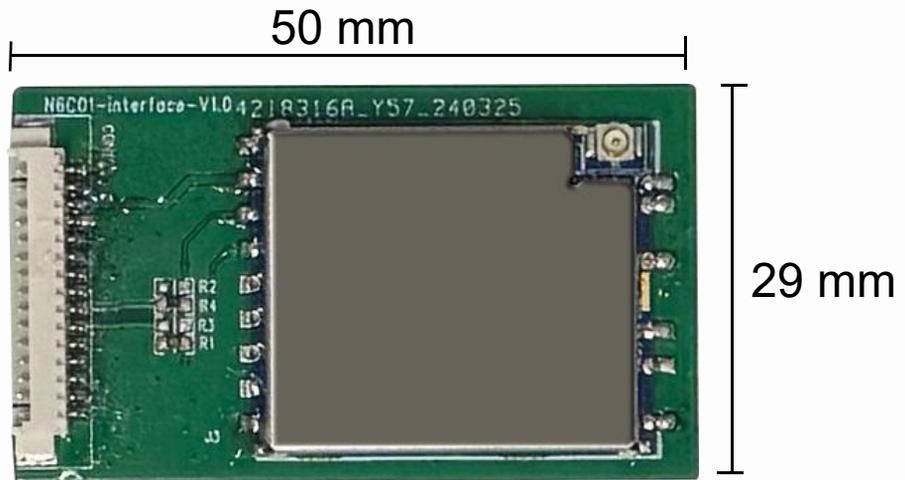
- Related Model

CYKEO-M1LX1

- Common Solution

All RFID Devices, etc.

- Dimension



Unit : mm (inch)  
Weight. : about 15g

- Accessory

Nnumber	Name	Units	Quantity
1	15Pin cable	units	1



# RFID IoT Application



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