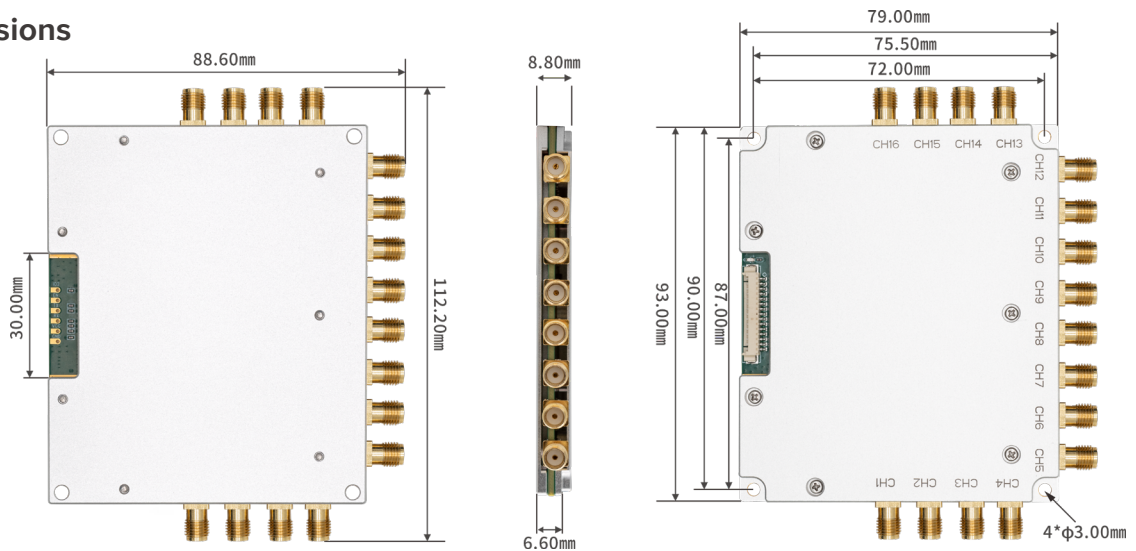


# CM2000-16

## 16-Port RFID Module

Chainway CM2000-16 is a 16-port UHF RFID reader module that can be integrated in mobile or fixed UHF RFID readers and etc. This module with superior UHF RFID performance boasts embedded Impinj R2000 RFID chip to enable greater than 10m read range. With high integration level, it is low in power consumption, resistant to electromagnetic interference and good at heat dispersion. CM2000-16 is ideal for industries like warehousing, logistics, apparel, production lines and such to boost efficiency.

### Dimensions



## Interface Definition (15 PIN)

PIN	Interface	Description
1	GND	Negative
2	GND	
3	VIN	Positive Input voltage range: 3.5-5.25 VDC
4	VIN	
5	GPIO3	Reserved GPIO 3.3V TTL level
6	GPIO4	Reserved GPIO 3.3V TTL level
7	GPIO1	Reserved GPIO 3.3V TTL level
8	BUZZ	Driving 3.3V buzzer
9	UART_RXD	UART receive 3.3V TTL level
10	UART_TXD	UART send 3.3V TTL level
11	USB_DM	USB_DATA(-)
12	USB_DP	USB DATA(+)
13	GPIO2	Reserved GPIO 3.3V TTL level
14	EN	>1.25V power-on mode <1.18V standby mode
15	GPIO_5	Reserved GPIO 3.3V TTL level

## Specification

Model	
16-Ports RFID Module	CM2000-16
Development Board Module	CM-X_EDCB
Physical Characteristics	
Dimensions	112.2 x 88.6 x 8.8mm / 4.42 x 3.48 x 0.35in.
Weight	253.0 g / 8.92 oz.
RFID Features	
RF Chip	Impinj Indy R2000
Air Interface Protocol	EPC global Gen2 (ISO18000-6C)
Working Frequency	865-868 / 920-925 / 902-928 MHz (custom-design for frequency band)
Output Power	5-30dBm adjustable; 1dB step interval; +/- 1dB precision
Output Power Flatness	+/- 0.2dB
Antenna Interface	16-channel 50Ω RF connector SMA Receptacle
Regions Supported	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; China 920-925 MHz; Others for customization (865-868, 902-928 MHz)
Receive Sensitivity	< -84 dBm
Tag RSSI	Supported
Antenna Detector	Supported
Ambient Temp Monitor	Supported
Working Mode	Single/DRM

Communication Interface	
Connector	15 PIN FPC Connector
Host Communication	UART 3.3V TTL Level Baud Rate: 115200bps
Power Supply	
Input Voltage	DC 3.5-5.25V
Power Consumption in RF Output Mode	5.3W@30dBm
Power Consumption in Standby (EN high TTL level)	0.15W
Power Consumption in Power Down (EN low TTL level)	30μW
User Environment	
Operating Temp.	-25°C to 65°C
Storage Temp.	-40°C to 85°C
Humidity	10% - 95%
Reading Performance	
Fastest Read Rate	900+ tags/s
Reading Range	Up to 10m (with 6dBi antenna, Alien9662 tag)

Notice: Product specifications are subject to change without prior notice. / Model: CM2000-16 / Update Date: 2023-03-31

**CHAINWAY®**

Shenzhen Chainway Information Technology Co., Ltd

Address: 9F, Building2, Phase 2, Gaoxinqi Industrial Park, Liuxian 1st Rd., Bao'an District, Shenzhen, Guangdong 518102, China

Tel: 0086-755-23223316

Fax: 0086-755-23223310

Email: sales@chainway.cn

Web: http://www.chainway.net