

CM2000-4

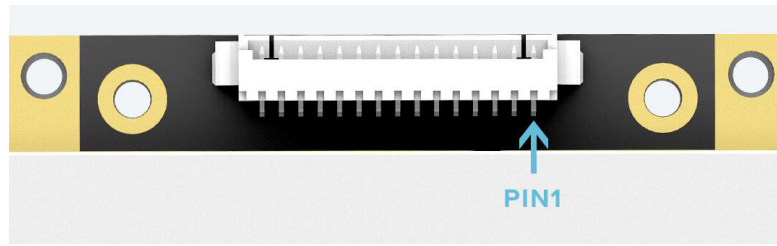
4-Port RFID Module

Chainway CM2000-4 is a 4-port UHF RFID reader module that can be used in mobile or fixed UHF RFID readers, integrated RFID readers, etc. This module with superior UHF RFID performance boasts embedded Impinj R2000 RFID chip to enable greater than 10m read range. With high stability, it is small in size, low in power consumption, resistant to electromagnetic interference and good at heat dispersion. CM2000-4 appeals to warehousing, logistics, apparel, production lines and such.

Dimensions



Interface Definition (15 PIN)



PIN	Interface	Description
1	GND	Negative
2	GND	
3	VIN	Positive
4	VIN	Input voltage range: 3.5-5.25 VDC
5	GPIO3	Reserved GPIO 3.3V TTL level
6	GPIO4	Reserved GPIO 3.3V TTL level
7	GPIOI	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	
4-Ports RFID Module	CM2000-4
Development Board Module	CM-X_EDCB
Physical Characteristics	
Dimensions	77.2 mm x 51.0 mm x 8.9 mm
Weight	52.0 g / 1.83 oz.
RFID Features	
RF Chip	Impinj Indy R2000
Air Interface Protocol	EPCglobal 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	4-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 W-TO-B 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.	-13°F to 149°F / -25°C to 65°C
Storage Temp.	-40°F to 185°F / -40°C to 85°C
Humidity	10% - 95%
Reading Performance	
Fastest Read Rate	900+ tags/s
Reading Range	Up to 10m (with 4dBi antenna)

Notice: Product specifications are subject to change without prior notice. / Model: CM2000-4 / Update Date: 2022-03-11

CHAINWAY[®]

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