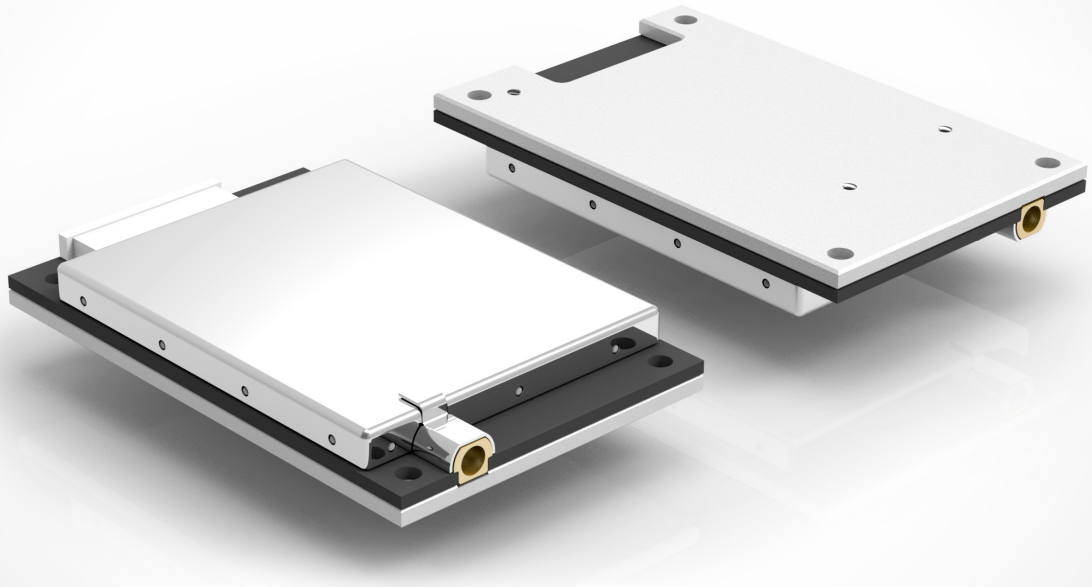
CHAINWAY

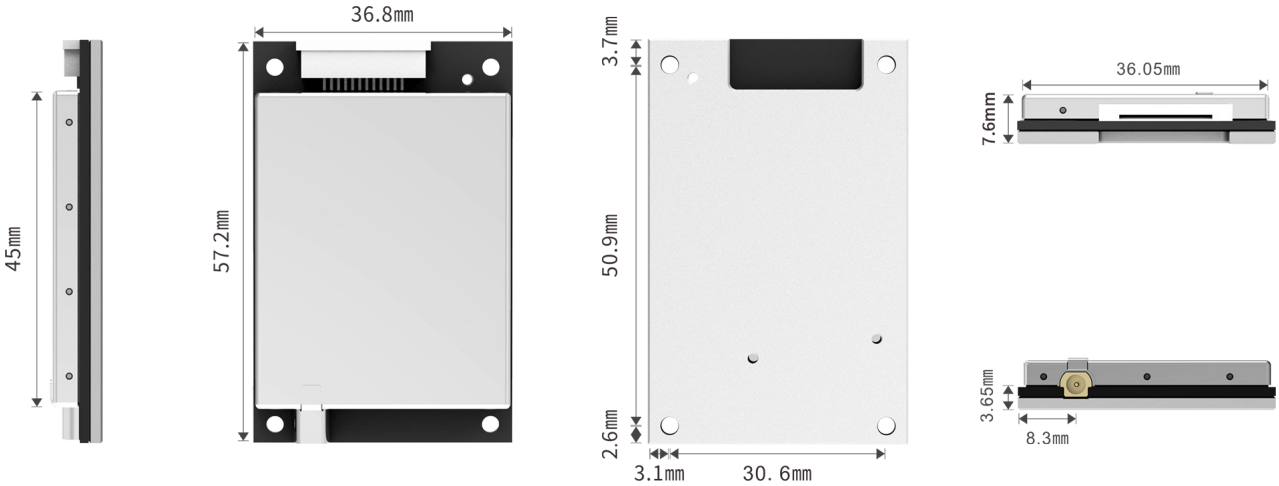


CM2000-1

1-Port RFID Module

Chainway CM2000-1 is a 1-port RFID module. It can be integrated in mobile UHF RFID readers, fixed readers, card readers and etc. With high integration level, it is small in size, low in power consumption, resistant to electromagnetic interference and good at heat dispersion. The module appeals to challenging industries like warehousing, logistics, apparel, production lines and such.

Dimensions



Interface Definition (12 PIN)

PIN#	Interface	Description
1	VIN	3.5-5.25VDC
2	VIN	
3	GND	Ground
4	GND	Ground
5	EN	High LLT level (>1.2V) boot the module Low LLT level (<0.4V) out the module
6	IO1	Reserved GPIO 3.3V TTL level
7	IO2	Reserved GPIO 3.3V TTL level
8	IO3	Reserved GPIO 3.3V TTL level
9	RXD	UART receive 3.3V TTL level
10	TXD	UART transmit 3.3V TTL level
11	USB_DP	USB_DATA(+)
12	USB_DM	USB_DATA(-)

Specification

Model

1-Ports RFID Module	CM2000-1
Development Board Module	CM-X_EDCB

Physical Characteristics

Dimensions	57.2mm x 36.8mm x 7.6mm
Weight	26.0g/0.92oz

RFID Features

RF Chip	Indy R2000
Air Interface Protocol	EPCglobal Gen2 (ISO18000-6C)
Working Frequency	860 – 960MHz
Output Power	5-30dBm adjustable; 1dB step interval; +/- 0.5dB precision
Output Power Flatness	+/- 0.2dB
Antenna Interface	50Ω RF connector MMCX Receptacle
Regions Supported	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; China 920-925MHz; Others for customization (865-868, 902-928MHz)
Receive Sensitivity	< -88 dBm
Tag RSSI	Supported
Antenna Detector	Supported
Ambient Temp Monitor	Supported
Working Mode	Single/DRM

Communication Interface

Connector	12 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)	1μW

User Environment

Operating Temp.	-25°C to 65°C
Storage Temp.	-40°C to 85°C
Humidity	10% - 95%

Reading Performance

Reading Rate	>200 tags/s
Reading Range	>10m (with 4dBi antenna)

Notice: Product specifications are subject to change without prior notice. / Model: CM2000-1 / Update Date: 2019-03-06

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