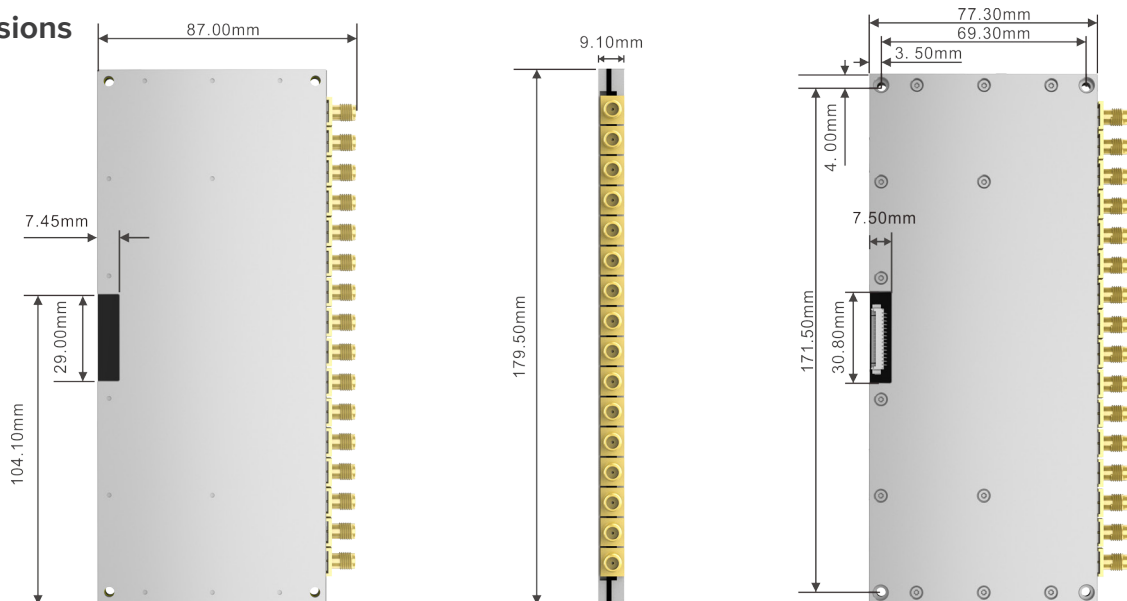


CM-16

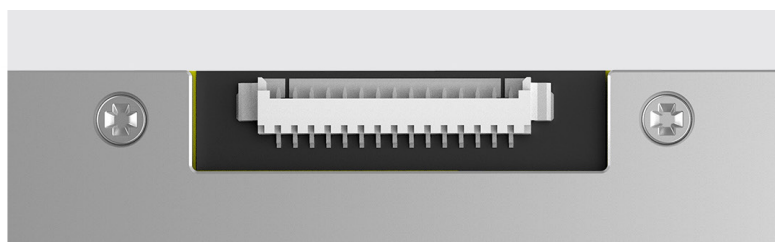
UHF RFID Reader Module

Chainway CM-16 is an 16-channel UHF RFID reader module integrated in mobile or fixed UHF RFID readers and etc. With high integration level and superb performance, this module is low in power consumption as well. It is also resistant to electromagnetic interference and good at heat dispersion. The module 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	Positive
2	GND	
3	VIN	Negative 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	
UHF RFID Reader Module	CM-16
Development Board Module	CM-X_EDCB
Physical Characteristics	
Dimensions	195.0 x 87.0 x 9.1mm / 7.68 x 3.43 x 0.36in
Weight	253.0g / 8.92oz
RFID Features	
RF Chip	Indy R2000
Air Interface Protocol	EPC global Gen2 (ISO18000-6C)
Working Frequency	860 – 960MHz
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 920-925MHz; 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	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	
Reading Rate	>700 tags/s
Reading Range	>10m (with 6dBi antenna, Alien9662 tag)

Notice: Product specifications are subject to change without prior notice. / Model: CM-16 / Update Date: 2018-08-07

CHAINWAY®

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