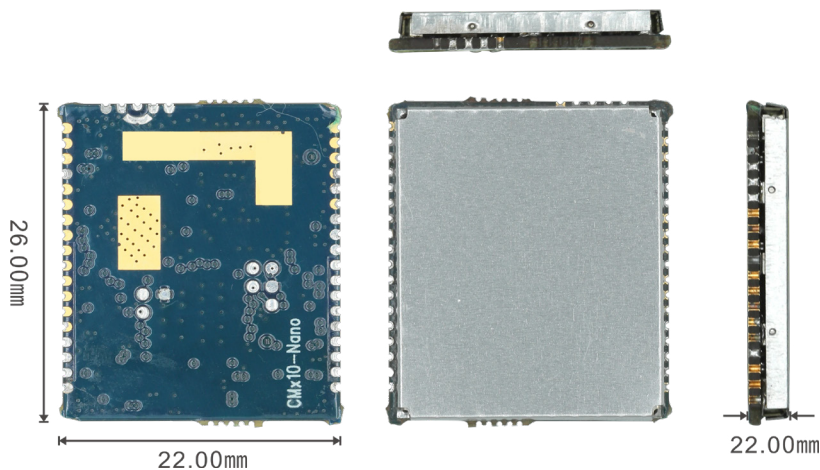


CMX10-Nano

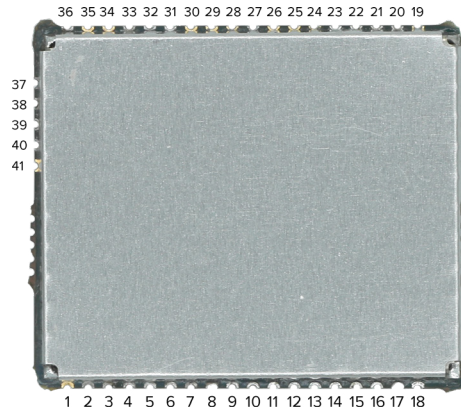
UHF RFID Module

CMX10-Nano (CM710-Nano / CM510-Nano / CM310-Nano) is an ultra-compact UHF module based on Impinj E710 / E510 / E310 chip. The module has various features such as high integration, small size, low power consumption, stability and reliability, also it has excellent anti-electromagnetic interference ability and heat dissipation performance. It is suitable for reading and writing in short-range scenarios such as container logistics and medical treatment.

Dimensions



Interface Definition



PIN#	Interface	Description
1-9,18,19,29-36	GND	Ground
10	VOUT	DC 3.3V
11	ENABLE	High vol.level, initiate module, high vol.level, initiate module
12	GPIO1	
13	GPIO2	
14	GPIO3	
15	GPIO4	
16,17	VIN	Positive power input Voltage input scope: 3.5-5.25 VDC
20	TXD	UART TX: 3.3V TTL
21	RXD	UART RX: 3.3V TTL
22-28	NC	
39	RF	Antenna Interface
37,38,40,41	GND	RF Ground

Radio-frequency connector: I-PEX coaxial connector (U.FL-R-SMT-1)

Specification

Model	
RFID Module	CM710-Nano / CM510-Nano / CM310-Nano
Physical Characteristics	
Dimensions	26mm x 22mm x 3.2mm
Weight	5 g / 0.18 oz.
RFID Features	
Air Interface Protocol	EPCglobal Gen2 (ISO18000-6C)
Working Frequency	860-930MHz
Output Power	5-30dBm adjustable; 1dB step interval; +/- 1dB precision
Antenna Interface	PCB stamp hole welding
Regions Supported	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; China 920-925MHz; Others for customization (865-868, 902-928MHz)
Communication Interface	
Connector	PCB stamp hole welding
Host Communication	UART 3.3V TTL level Baud Rate: 115200bps

Power Supply	
Input Voltage	DC 3.5-5.25 V
Power Consumption in RF Output Mode	5.6W@30dBm
Power Consumption in Standby (EN high TTL level)	0.175 W
Power Consumption in Power Down (EN low TTL level)	42.5 uW
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	> 300 tags/sec
Reading Range	> 2m, with 1dBi antenna, Alien 9662 label

Notice: Product specifications are subject to change without prior notice. / Model: CMX10-Nano / Update Date: 2022-03-09

CHAINWAY®

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