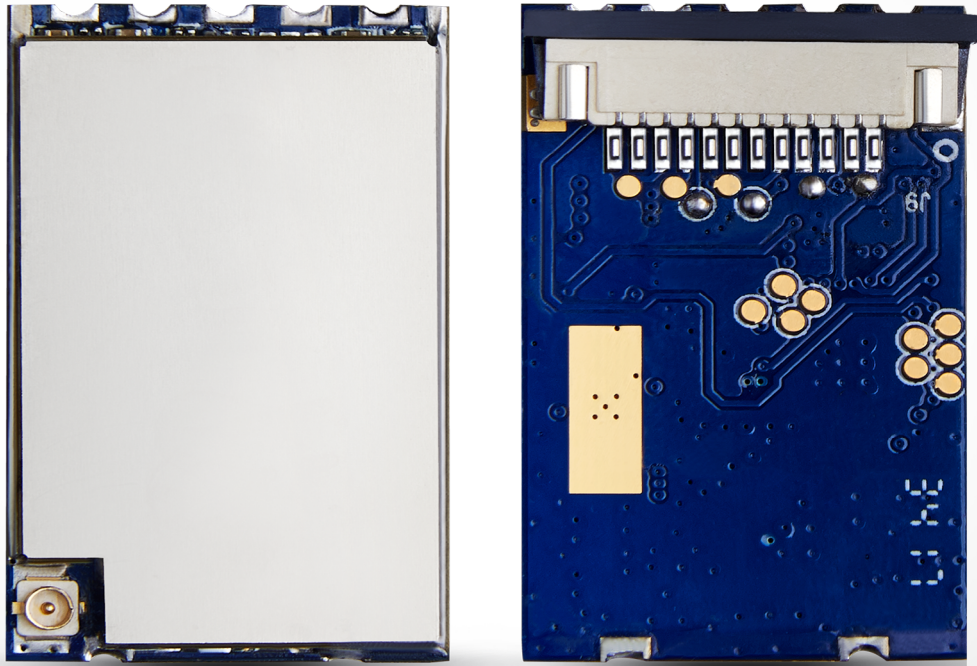


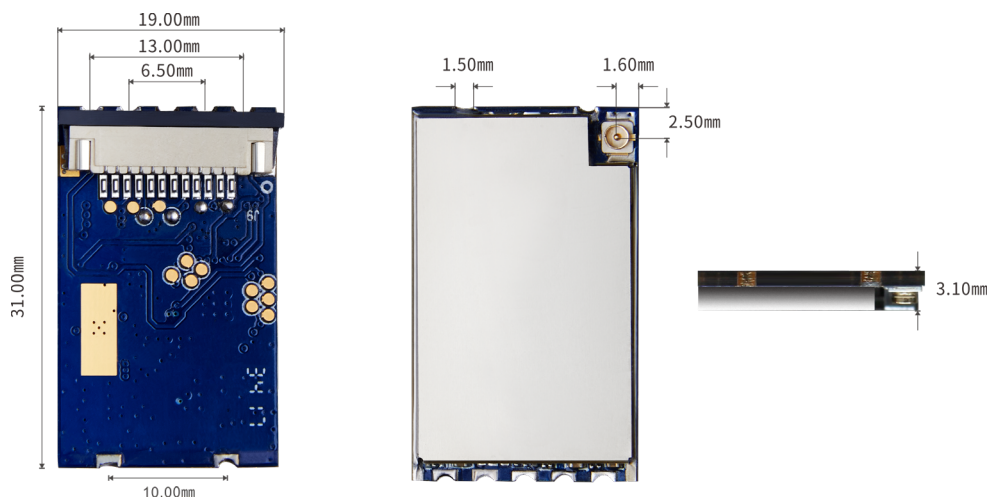


CM-XN

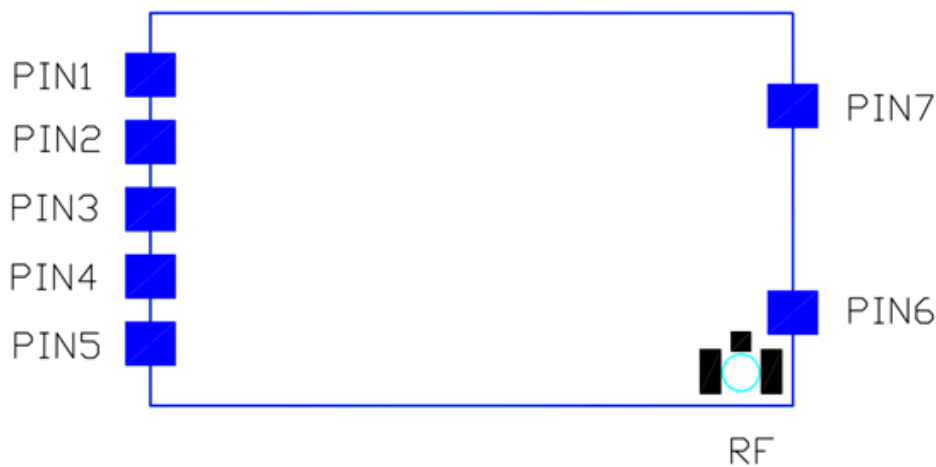
UHF RFID Module

CM-XN (CM-7N / CM-5N / CM-3N) is a compact UHF module based on Impinj E710 / E510 / E310 chip supporting the latest Impinj Gen2X, it can be equipped with handheld devices, card issuers, all-in-one machines and etc. 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	VIN	Power input positive +, voltage input range:3.5-5.25 VDC
2	GND	
3	EN	High LLT level (>1.2V) boot the module Low LLT level (<0.4V) shut the module
4	RXD	UART receive 3.3V TTL level
5	TXD	UART transmit 3.3V TTL level
6	GND	
7	GND	

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

Specification

Model	
RFID Module	CM-7N / CM-5N / CM-3N
Physical Characteristics	
Dimensions	31 mm x 19 mm x 3.1 mm
Weight	3 g / 0.11 oz.
RFID Features	
Impinj Gen2X	Supported
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
Antenna Interface	I-PEX coaxial connector (U.FL-R-SMT-1)
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	4.3W@27dBm
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	> 50 tags/sec
Reading Range	CM-7N: Up to 30m (with 4dBi antenna & M750 tag)
	CM-5N: Up to 20m (with 4dBi antenna & M750 tag)
	CM-3N: Up to 10m (with 4dBi antenna & M750 tag)

Notice: Product specifications are subject to change without prior notice. / Model: CM-7N / CM-5N / CM-3N / Update Date: 2025-07-09

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