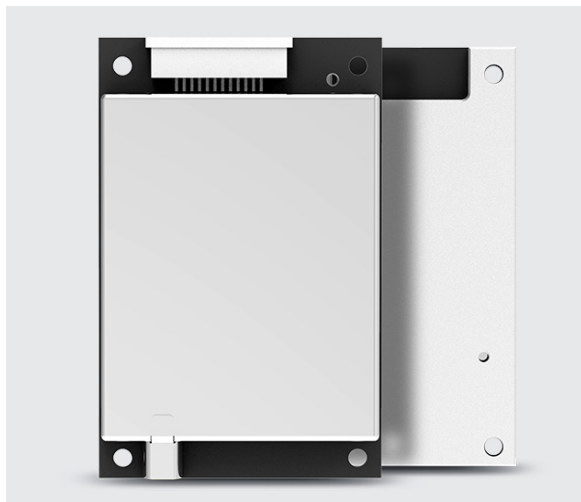


CM710-1

OEM module

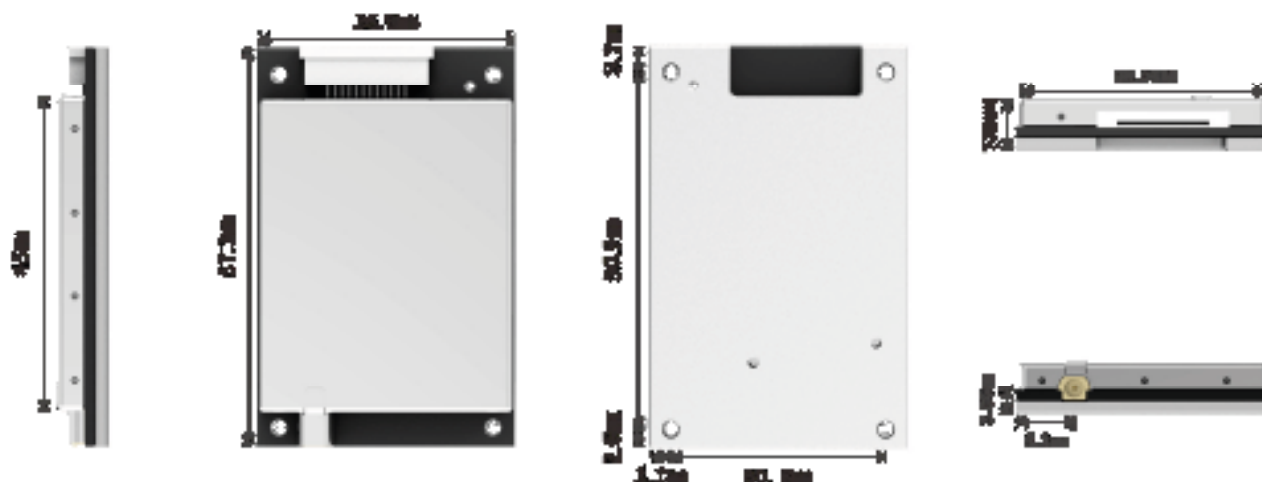


The CM710-1 UHF OEM module is equipped with one antenna port. The small size and low power consumption of this reliable module ensure its stability. It is also resistant to electromagnetic interference and dissipates heat well. The module can be used for a variety of applications, such as logistics, production tracking, and materials management.

Key features:

- 1 channel port
- Low power consumption
- Heat dispersion

Dimensions



General specifications

Dimensions	57.2 mm x 36.8 mm x 7.6 mm
Weight	26g
Input voltage	DC 3.5-5.25V
Power consumption in RF output mode	7.5W
Power consumption in standby mode (EN high TTL level)	0.175W
Power consumption in power down mode (EN low TTL level)	42.5µW

V1.2

Non-contractual datasheet

CM710-1

OEM module

Communication interface

Connector	12 PIN FPC connector
Host communication	UART 3.3V TTL Level ; Baud rate: 115200bps

User environment

Operating temperature	-25°C to +65°C
Storage temperature	-40°C to +85°C
Humidity	10% - 95%

RFID UHF

Module	Module based on Impinj E710
Air interface protocol	EPC Global UHF Class 1 Gen 2 / ISO18000-6C
Frequency	865-868 / 920-925 / 902-928 MHz (custom-design for frequency band)
RF channel	1 channel
Antenna interface	50Ω RF connector MMCX Receptacle
Output power	1-30 dBm adjustable, 1 dBm step interval, +/- 0.5 dBm precision
Output power flatness	+/- 0.2 dBm
Receive sensitivity	<-87 dBm
Fastest reading rate	950+ tags/s
Reading range	Up to 10m (with 4dBi antenna)
Ambient temp monitor	Supported
Tag RSSI	Supported
Antenna detector	Supported
Working mode	Single/DRM

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	NC	
12	NC	

V1.2

Non-contractual datasheet