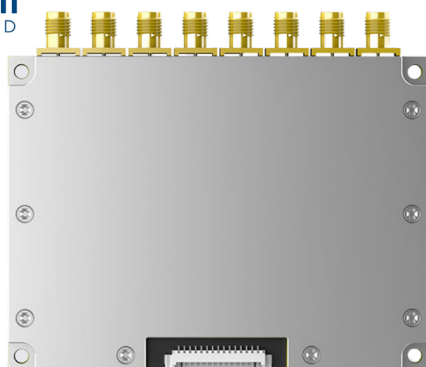


CM710-8 Module OEM



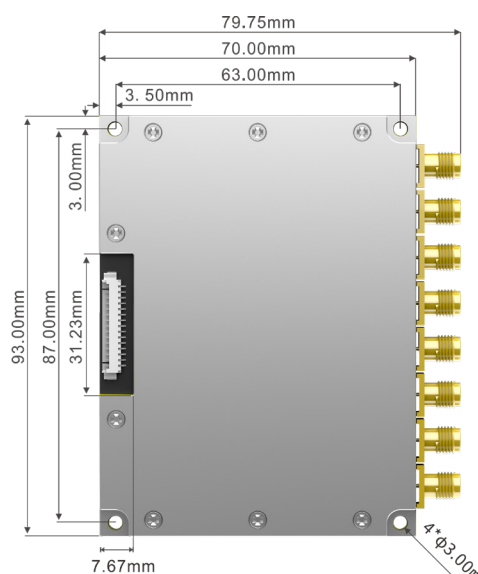
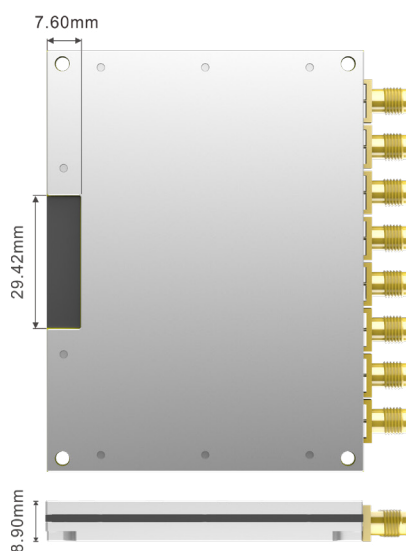
The CM710-8 is an 8-port RFID module based on the Impinj E710. It is designed for integration into fixed RAIN RFID (UHF) readers.

Featuring a high level of integration and outstanding performance, this module has low power consumption. It is also resistant to electromagnetic interference and offers good heat dissipation.

Key features

- Impinj E710 chip
- 8 antenna-ports
- Strong stability
- Heat dispersion
- Low power consumption

Dimensions



V1.0

Non-contractual datasheet

CM710-8

Module OEM



General specifications

Dimensions	93.0 mm x 79.75 mm x 8.9 mm
Weight	108.0 g
Input voltage	DC 3.5-5.25V
Power consumption in RF Output Mode	7.5W
Power consumption in standby (EN high TTL level)	0.175W
Power consumption in power down (EN low TTL level)	42.5µW

RAIN RFID (UHF)

Engine	Impinj E710
Protocole	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Output power	5-30dBm adjustable; 1dB step interval; +/- 1dB precision
Output power precision	+/- 1dB
Output power flatness	+/- 0.2dB
Receive sensitivity	< -86 dBm
Fastest read rate	950+ tags/s
Reading range	Up to 34m (with 6dBi antenna and M750 tag)
RSSI	Supported
Ambient temp monitor	Supported
Antenna detector	Supported
Antenna port	8-channel 50Ω RF connector SMA
Working mode	Single/DRM

Communication Interface

Connector	15 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%

V1.0

Non-contractual datasheet

AXEM Technology

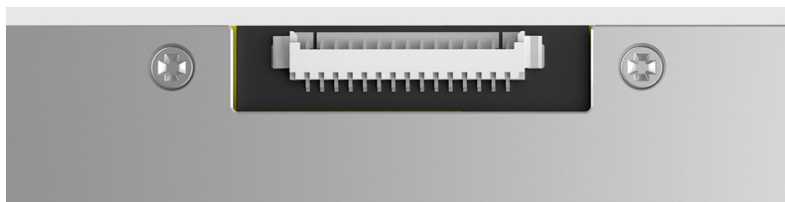
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CM710-8

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Interface (15 PIN)



PIN	Interface	Description
1	GND	Negative
2	GND	
3	VIN	Positive
4	VIN	Input voltage range: 3.5-5.25 VDC
5	GPIO3	Reserved GPIO 3.3V TTL level
6	NC	
7	GPIOI	Reserved GPIO 3.3V TTL level
8	BUZZ	Driving 3.3V buzzer
9	UART_RXD	UART receive TTL 3,3V level
10	UART_TXD	UART receive TTL 3,3V 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	NC	

Reference

LCOUHF2163EU Module OEM CM710-8 UHF, 93 x 79.8 x 8.9mm, 8 ports antenna SMA, EU

V1.0

Non-contractual datasheet