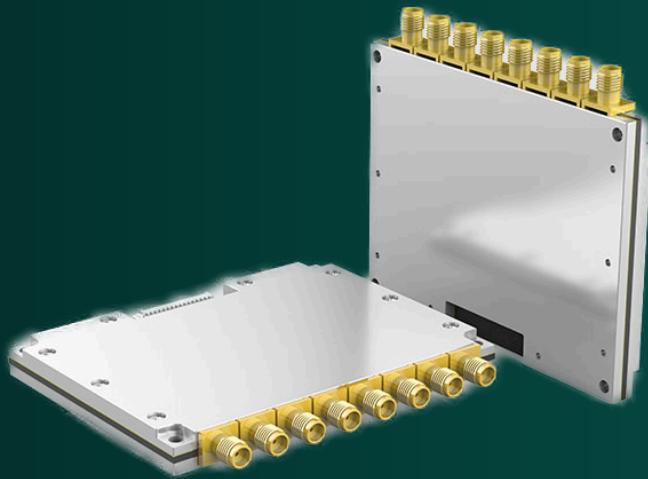


### ■ UHF | RAIN - Reader Module **CHAINWAY - CM710-8**

- EPCglobal Gen2 (ISO18000-6C)
- Based on Impinj E710 chipset
- Adjustable RF output power up to 30 dBm
- UART host communication (3.3V TTL)
- Low power consumption



### UHF | RAIN - Reader Module 8-port UHF RFID module for OEM integration

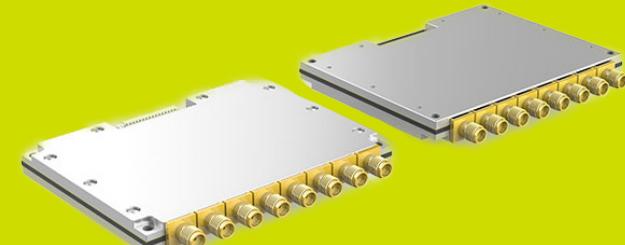
The Chainway CM710-8 is a high-performance 8-port UHF RFID module designed for integration into fixed RFID readers requiring scalable, multi-antenna architectures. Powered by the Impinj E710 chipset with Gen2X support, the module delivers reliable UHF performance with excellent read accuracy and stability.

Its compact form factor, low power consumption and efficient heat dissipation enable continuous operation in demanding industrial environments. With adjustable RF output power, high receive sensitivity and UART-based host communication, the CM710-8 supports the development of high-throughput RFID systems for logistics, warehousing and production automation.

### ■ Common Applications

- Embedded RFID terminals
- Warehouse and logistics solutions
- Apparel and retail inventory systems
- Production line automation
- Mobile RFID readers

## **CHAINWAY**



## ■ TECHNICAL SPECIFICATIONS

Physical Characteristics		Communication Interface	
Dimensions	93.0 mm x 79.75 mm x 8.9 mm	Connector	15 PIN FPC Connector
Weight	108.0 g / 3.81 oz.	Host Communication	UART 3.3V TTL Level Baud Rate: 115200bps
RFID Features		Power Supply	
RF Chip	Impinj E710	Input Voltage	DC 3.5-5.25V
Impinj Gen2X	Supported	Power Consumption in RF Output Mode	7.5 W
Air Interface Protocol	EPCglobal Gen2 (ISO18000-6C)	Power Consumption in Standby (EN high TTL level)	0.175 W
Working Frequency	865-868 / 920-925 / 902-928 MHz (custom-design for frequency band )	Power Consumption in Power Down (EN low TTL level)	42.5 $\mu$ W
Output Power	5-30dBm adjustable; 1dB step interval; +/- 1dB precision	User Environment	
Output Power Flatness	+/- 0.2dB	Operating Temp.	-13°F to 149°F / -25°C to 65°C
Antenna Interface	8-channel 50 $\Omega$ RF connector SMA receptacle	Storage Temp.	-40°F to 185°F / -40°C to 85°C
Regions Supported	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; China 920-925MHz; Others for customization (865-868, 902-928MHz)	Humidity	10% - 95%
Receive Sensitivity	< -86 dBm	Reading Performance	
Tag RSSI	Supported	Fastest Read Rate	950+ tags/s
Antenna Detector	Supported	Reading Range	Up to 34m (with 6dBi antenna & M750 tag)
Ambient Temp Monitor	Supported	Model	
Working Mode	Single/DRM	8-Ports RFID Module	CM710-8
		Development Board Module	CM-X_EDCB