

UHF | RAIN - Reader Module CT - modEAx310

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Up to 33 dBm output power
- 1 x MMCX antenna port
- Up to 12m reading range
- Serial interface (TTL Levels)



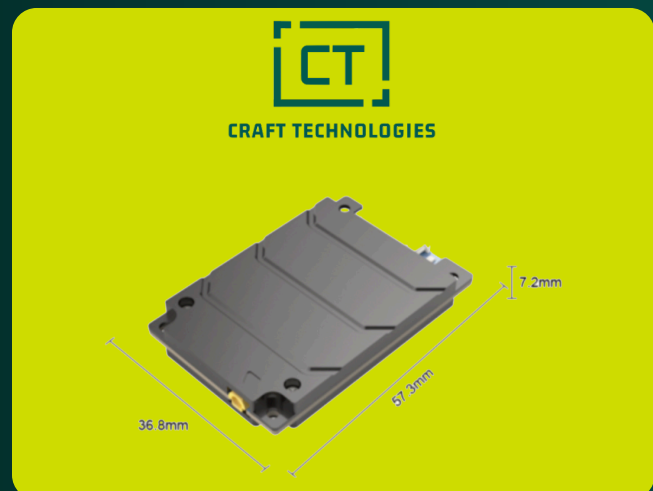
UHF | RAIN - RFID Module

CRAFT TECHNOLOGIES modEAx310 is a compact RFID reader module with one external antenna port. This UHF | RAIN - RFID reader module comes with a programmable output power of up to 33 dBm, the readers can detect tags at a distance of up to 12m (depending on the reader IC, antenna, tag dimensions and environment).

The reader module support TTL - UART as interface and comes with an serial command protocol.

Common Applications

- Handheld devices
- Vehicle mounted readers
- Point of Care
- Point of Sale
- Industrial Automation



TECHNICAL SPECIFICATIONS

RFID Technical Parameters

Operating Frequency	865.600~867.600 MHz (ETSI EN 302 208 v. 3.3.1) 902~928 MHz (FCC part 15.247)
Supported Standards	ISO18000-6C (EPC GEN2)
Chip solution	Impinj E310
RF Power	0-33dbm (adjustable)
Reading speed	250 tags per second
Data cache	1000 @96bit EPC tags
Reading distance	>12 meters (external 8dBi antenna, label E41)
Working mode	Active mode / Answer mode
RSSI	Supported

Environmental Parameters

Cooling method	External cooling
Operating temperature	-20°C- +60°C
Storage temperature	-40°C- +85°C
Operating humidity	<95% (25°C)

Physical Characteristics

Dimensions	57 x 36.8 x 7.3mm
Weight	22.2 g

Data Communication

Antenna port	1 MMCX female connector
Communication interface	TTL Uart interface, baud rate 115200bps
Transmission mode	Operates in wide spectrum frequency hopping (FHSS) or fixed frequency transmission mode
Operating voltage	3.8-5.5V
Operating mode power consumption	< 6.9W (typical value)
Standby mode power consumption	0.25W
Sleep mode Power consumption	0.05W
Logic level	VIL -0.5-0.8V VIH +2-3.3V
Connector	12V / 2A
Current consumption	12 pin pin header

Drivers & Support

SDK	Demo software, API, examples, user manual
Supported Libraries	C#, Delphi, Java, Python, VB and other languages
Firmware version	Support online upgrade

Part No. / Model

TBA	CT - modEAx310
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