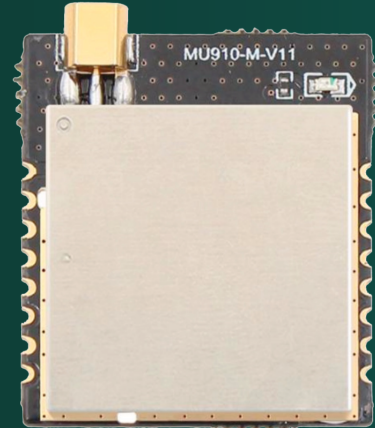


UHF | RAIN - Reader Module CT - modEAX1

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Up to 26 dBm output power
- 1 x MMCX antenna port
- Up to 10m reading range
- Serial interface (TTL Levels)



UHF | RAIN - RFID Module With integrated antenna

CRAFT TECHNOLOGIES modEAX1 is a ultra compact RFID reader module with one external antenna port. This UHF | RAIN - RFID reader module comes with a programmable output power of up to 26 dBm, the readers can detect tags at a distance of up to 10m (depending on the reader IC, antenna, tag dimensions and environment).

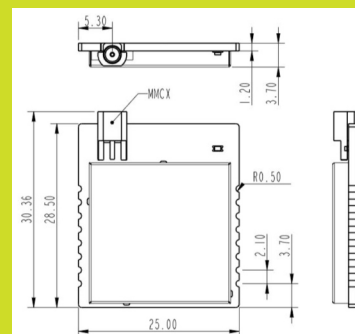
Due to their compact size, the modules are well suited for the development of very compact devices. The reader module support TTL - UART as interface and comes with an serial command protocol.

Common Applications

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



CRAFT TECHNOLOGIES



TECHNICAL SPECIFICATIONS

Contactless Interface

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)
RF Power	0-26dbm (adjustable)
Reading speed	50 tags per second
Data cache	1000 @96bit EPC tags
Reading distance	0-12 meters (depending on the tag and antenna selected)
External antenna	The standing wave ratio is recommended to be less than 1.5
Working mode	Active mode / Answer mode
RSSI	Supported

Environmental Parameters

Cooling method	External cooling
Operating temperature	-40°C- +65°C
Storage temperature	-45°C- +85°C
Operating humidity	<95% (25°C)

Physical Characteristics

Dimensions	30 x 25 x 4 mm
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Data Communication

Antenna port	1x 50 ohm MMCX female interface
Communication interface	TTL Uart interface, baud rate 115200bps
GPIO interface	3.3V 2 inputs 2 outputs
Operating voltage	3.6 - 5.5V
Operating mode power consumption	<1.5W (typical)
Standby mode power consumption	0.25W
Sleep mode Power consumption	0.05W
Logic level	VIL -0.5-0.8V VIH +2-3.3V
Power supply	12V / 2A
Current consumption	0.5~1.2A

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 - modEAx1
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