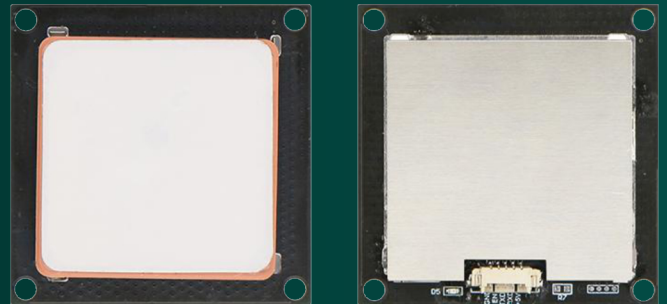


UHF | RAIN - Reader Module CT - modIA

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Up to 20 dBm output power
- Integrated Antenna
- Up to 100cm reading range
- Serial interface (TTL Levels)



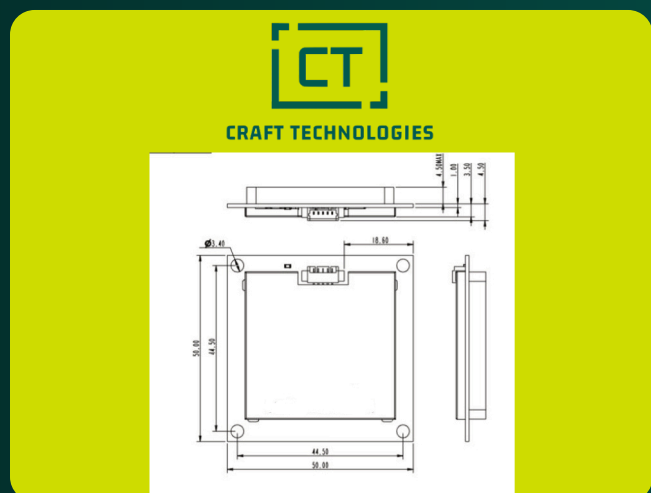
UHF | RAIN - RFID Module With integrated antenna

CRAFT TECHNOLOGIES modIA is a ultra compact RFID reader module with integrated antenna. This UHF | RAIN - RFID reader module comes with a programmable output power of up to 20 dBm, the readers can detect tags at a distance of up to 100cm (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



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	EPC Class 1 Gen 2 - ISO18000-63
RF Power	0 - 20 dBm
Antenna	Circulare polarized - 3dBi Antenne single feed
Number of Channels	4 channels (ETSI EN 302 208 V. 3.3.1) 50 hopping channels (FCC part 15.247)
Operation Modes	RSSI supported

Host Interface

Interface	TTL - UART
Protocol	Serial Protocol
Interface Settings:	Baudrate: 9.6 to 921.6 kbps Databits: 8 Stopbit: 1 Parity: none Flow control: none
I/O Level	3.3 V

Physical Characteristics

Dimension	50 x 50 x 4.1 mm
Weight	25 g
Connector Type	5 pin Molex connector
IP Protection	N/A
Temperature	-20 °C to +70 °C
Humidity	N/A

Electrical Characteristics

Voltage	4.0 ÷ 5.5 V DC
Consumption	0.8W @ operating mode 0.25W @ standby mode 0.05W @ sleep mode
I/O Interface	4 I/O lines 3.3V level @ 8 mA max.
LED	N/A

Certifications & Compliances

Certifications	CE, UKCA, FCC, REACH & RoHS
Compliances	RAIN ALLIANCE (ISO18000-63)

Drivers & Support

Supported OS	Works with any OS & µC
Supported Libraries	C#, Java, Python
Tools	Software Development Kit

Part No. / Model

TBA	CT - modIA
-----	------------