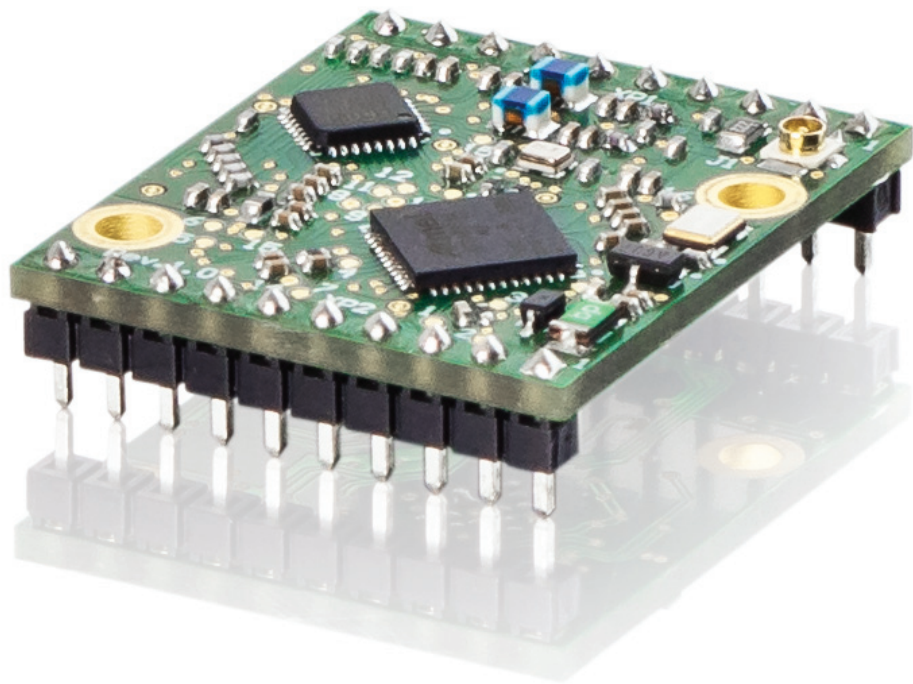




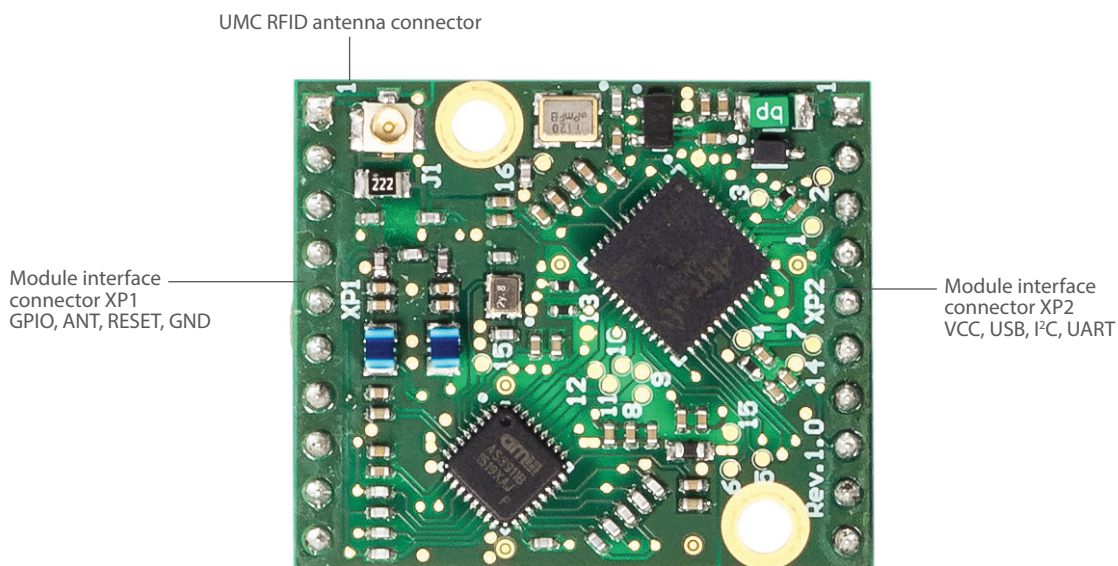
RFID HF-Reader Module

iRFID-M

- Very small form factor
- Industry leading read / write distance
- Ultra low standby current
- Up to 5 GPIOs
- Supports USB, I²C and UART interfaces
- Powerful software tools, incl. APIs and SDKs
- Designed, Engineered and Manufactured in Germany

RFID HF-Reader Module

iRFID-M



Description

The iRFID-M is a highly integrated RFID HF-reader module which includes all necessary functionalities to design fully featured RFID applications.

Standard firmware supports all major industry standard protocols and interfaces.

A Software Development Kit (SDK), Firmware compatibility and extensive documentation will allow smooth integration into a variety of software environments and ease migration of platforms over a long term product lifecycle.

Typical Verticals

Point of Sales (POS):

Ticketing, Inventory Control

Point of Information (POI):

Portable Readers

Industrial Automation:

Access Control

Medical & Healthcare:

Authorization & Identification

Transportation:

Supply Chain Management

RFID HF-Reader Module

iRFID-M

Technical Information

Protocols	• ISO15693, ISO14443A/B, ISO18092, DES-Fire, Felica, EMVCo
Antenna	• External: Short - up to 9 cm, Medium - up to 15 cm, Long - up to 18 cm
Transmitting Power	• Up to 1000 mW, Software configurable
Operating Frequency	• 13.56 Mhz
Read Distance	• Up to 18 cm (controlled by antenna type and environmental conditions)
Write Distance	• Approx. 100 % of reading distance
I/O Pins	• 5 software controllable and configurable GPIO pins
On-Board Diagnostics	• Temperature sensor, Power consumption measurement
Software Support	• SDK & libraries for Windows and Linux
Host Interface	• I ² C, UART, USB HID, USB CDC (Virtual Serial Port), Default: 115200 Baud
Specifications	- Physical (W x L x H) Weight 20 g, 32 mm x 27.5 mm x 3 mm (8.5 mm incl. pin headers) - Electrical Voltage Input: +5 V DC +5 %, Reverse & Overvoltage protection Input current: Operating = 100 mA, Idle = 31 mA, Sleep = 180 µA - Environmental Operating Temperature 0 °C to +60 °C (Commercial) Operating Temperature -40 °C to +85 °C (Extended)

Ordering Information

Article	Part.-No.	Description
iRFID-M-CT	10020E-00-01-01	RFID HF-reader module, Commercial Temperature 0 °C to +60 °C, male pin headers bottom side
iRFID-M-ET	10021E-02-01-01	RFID HF-reader module, Extended Temperature -40 °C to +85 °C, male pin headers bottom side

Mouser Electronics

Authorized Distributor

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[10020E-00-01-01](#) [10021E-02-01-01](#)