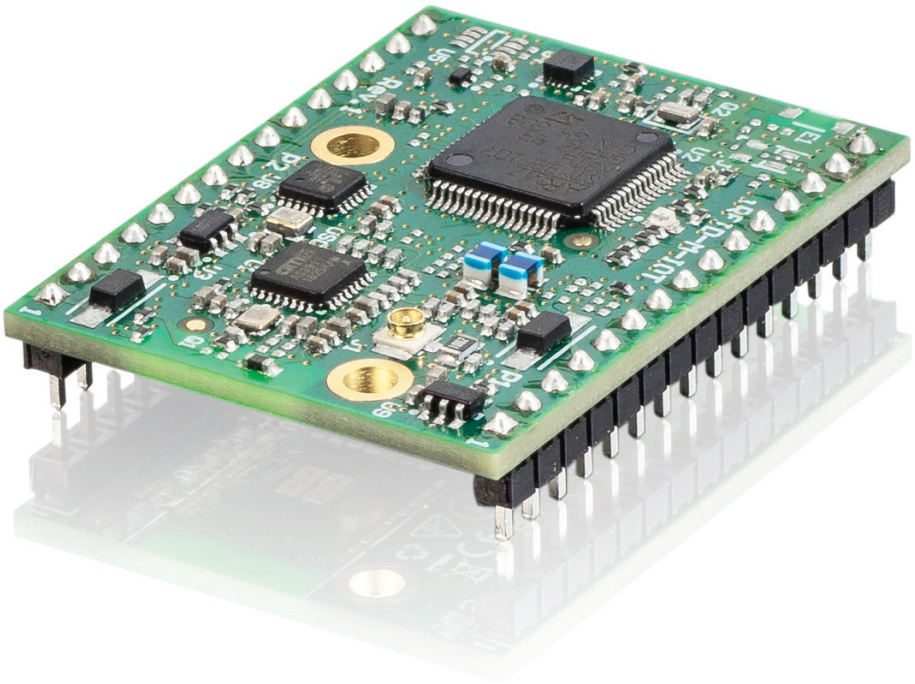


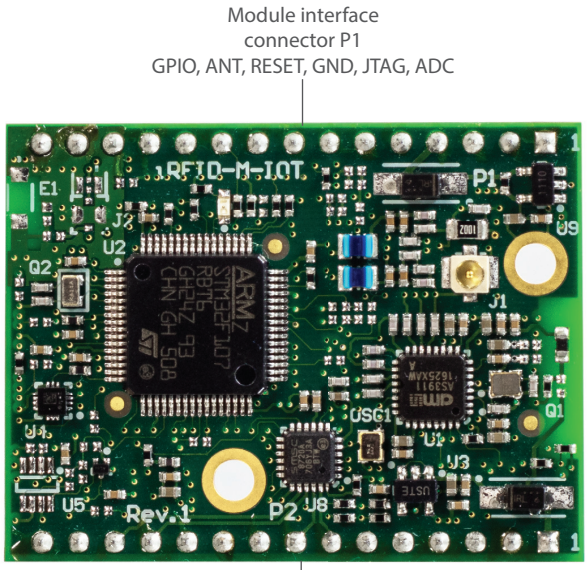
RFID HF-Reader module with WiFi and Ethernet interfaces

iRFID-M-IOT

- Very small form factor
- Industry leading read / write distance
- Ultra low standby current
- Up to 5 GPIOs and up to 3 ADC channels
- Battery buffered RTC and 3-axis MEMS and Temperature sensor
- Supports USB, I^2C, UART, CAN, SPI, WiFi and Ethernet interfaces
- Powerful software tools, incl. APIs and SDKs
- Designed, Engineered and Manufactured in Germany

RFID HF-Reader module with WiFi and Ethernet interfaces

iRFID-M-IOT



Description

The iRFID-M-IOT is a highly integrated RFID HF-reader module with WiFi or Ethernet connectivity and eCLOUD-interface to design fully featured cloud-based 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 with WiFi and Ethernet interfaces
iRFID-M-IOT

Technical Information

Protocols	• ISO15693, ISO14443A/B, ISO18092, DES-Fire, Felica, EMVCo
Antenna	• External: UMC antenna connector (RFID, WiFi)
Transmitting Power	• Up to 1000mW, 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	• Up to 5 software controllable and configurable GPIO pins • Up to 3 ADC channels • Battery buffered RTC • 3-axis MEMS and Temperature sensor
Software Support	• arm mbed OS powered • SDK & libraries for Windows & Linux
Host Interface	• WiFi • I^2C, UART, USB HID, USB CDC (Virtual Serial Port), Default: 115200 Baud • Optional: SPI, CAN, Ethernet
Connectivity	• 10/100 Mbit Ethernet (optional), CAN-Bus • WiFi Transceiver according 802.11b/g/n • Radio Frequency Regulations, ETSI (Europe), IC (Canada), FCC (USA), ARIB STD-T66 (Japan), JATE (Japan)WiFI IEEE 802.X
Cloud Platform Connectors	• eCOUNT eCLOUD • Microsoft Azure • Amazon AWS
Voltage Input	• +3.3 V DC ± 5 % , Reverse and Overvoltage protection • Power consumption measurement
Form Factor	• Dimension (Module) WxLxH: 31.0 mm x 41.0 mm x 3.0 mm , 8.5 mm incl. pin headers • Mounting holes for rugged environments • Industrial grade 2.54 mm pitch connectors
Temperature Range	• Commercial: 0 °C to +60 °C • Industrial: -20 °C to +70 °C

Ordering Information

Article	Part.-No.	Description
iRFID-M-IOT-W-CT	10025E-00-01-01	WiFi RFID HF-reader module, Commercial Temperature: 0 °C to +60 °C, male pin headers bottom side
iRFID-M-IOT-W-IT	10025E-01-01-01	WiFi RFID HF-reader module, Industrial Temperature: -20 °C to +70 °C, male pin headers bottom side

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