

QR-NFC Embedded OEM Module

Art. No.:

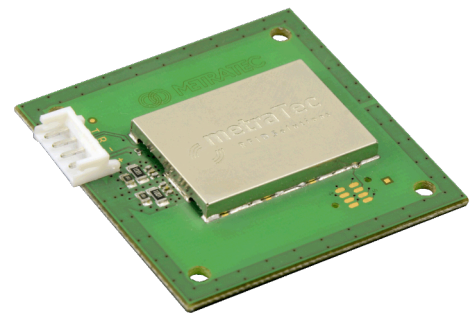
- 22003433 (UART Version)
- 22003462 (I2C Version)

NFC RFID is becoming the de-facto standard for modern wireless access and ID solutions. But often device developers don't know which specific RFID standard needs to be supported. In this situation, the QR-NFC solves all your problems.

The compact OEM module with an integrated 13.56 MHz antenna can read and write all NFC RFID transponders over a range of a few cm. This includes ISO15693 tags (NFC Type 5) and all ISO14443-A based transponders including all products from the NXP Mifare® series. This includes not only Mifare Classic and Ultralight® but also NTAG transponders as well as the very secure Mifare DESFire® tags.

The reader is connected to a host system via a 3.3V UART or I2C, depending on the version. You can control the device via a simple-to-use AT-protocol or using our free MicroPython or C libraries.

Typical usage scenarios for the QR NFC are customer identification systems, eg. for charging stations or in gyms, cashless prepaid systems like subway tokens, cafeteria payments, etc., as well as access control systems for lockers or machines.



- ⦿ Integrated Antenna
- ⦿ Reads all NFC standards
- ⦿ UART/I2C Interface
- ⦿ Up to 10 cm read range

Technical Specification

Operating Principle	Short-Range NFC RFID OEM Module (13.56 MHz)
Operating Frequency	13.56 MHz (worldwide)
Antenna Connector	integrated loop antenna
RF Output Power	250 mW
Read Range	up to 10 cm (depending on transponder size)
Supported Protocols	ISO15693, ISO14443-A, Mifare Classic, Ultralight, DESFire
Connectivity	3.3V UART or I2C Interface
Operating Voltage	5V DC
Power Consumption	idle: 12 mA, RF on: max. 125 mA
Temperature Range	-20 °C to +70 °C
Dimensions	50 x 50 x 7 mm

If you are looking for a reader/writer that can read the same transponders as the QR-NFC but has a nice package and a USB interface, have a look at our DeskID-NFC.

EU Office

Metratec GmbH
Niels-Bohr-Str. 5
39106 Magdeburg
Germany

+49 (0)391 2519 06-00
info@metratec.com

About Metratec

Metratec is a manufacturer of RF electronics specialized in wireless “Identification” (RFID) and “Localization” (RTLS). We serve a variety of markets from the manufacturing industry and logistics to vending machines and medical devices. Our customers include OEM customers, IoT system integrators and research facilities worldwide.

US Office

Metratec USA
6 Liberty Square #2073
02109 Boston, MA
United States

+1 (857) 799-3795
us@metratec.com