

## OEM Read/Write Module – NFC / ISO 14443A

This universal applicable iDTRONIC NFC/ISO14443A read/write module is based on the latest NXP RFID technology and combines all technical requirements for use in a variety of RFID market segments and applications.

It supports both Mifare (ISO14443A) and active<->passive / active<->active Near Field Communication (NFC) according to ISO18092. This peer to peer (p2p) function allows automatic intuitive communication between modules which are for instance integrated into mobile phones and PDAs.

This iDTRONIC NFC/ISO14443A read/write module comes without antenna. Depending on the antenna used, it is possible to achieve 5cm (passive mode) to 10cm reading distance (active mode).



### Applications:

- Data exchange
- Ticketing
- Point of sales
- Access control

### Product specification:

<b>Description:</b>	OEM module read/write NFC / ISO14443A without antenna (Arygon product)
<b>Dimensions:</b>	30,48 x 30,48 x 4,0mm
<b>Interface:</b>	UART (CMOS-TTL)
<b>Communication protocol:</b>	ARY (HL - high level language) TAMA (LL - low level language)
<b>Baud rate UART (to host):</b>	µC equipped: 9.6, 19.2, 38.4, 57.6, 115.2, 230.4, 460.8 kBaud No µC equipped: up to 1.228 MBaud
<b>Baud rate (to passive/active devices):</b>	up to 424,0 kBaud
<b>Supported transponders:</b>	NXP Mifare, DESFire ISO 14443A transponders
<b>Power supply:</b>	5,0 VDC
<b>Power consumption:</b>	typical 150 mA
<b>Temperature range :</b>	-20 ↔ +85°C
<b>Reading range:</b>	50 mm (passive mode) depending on tag and antenna size 100 mm (active mode)
<b>User I/O:</b>	8 x IO ports, 1 x PWM Output (PIN), 1 x Open drain (PIN), 1 x Analog Input (Sold Pad), User Interrupt Pin for wake up.
<b>Options:</b>	3,3V Version, Version without µC, Interface options: SPI, I2C, USB 2.0 , S2C, Wiegand
<b>Order number:</b>	R-NFC-MOD-xx