

# NFC Module



## Specifications:

|                         |                 |
|-------------------------|-----------------|
| <b>Mounting</b>         | POGO Pin        |
| <b>Dimensions</b>       | 70 x 55 x 24 mm |
| <b>Weight</b>           | 28 g            |
| <b>Power Supply</b>     | USB Bus         |
| <b>Reading distance</b> | 4 cm            |
| <b>Frequency</b>        | 13,56 MHz       |

## Supported transmission modes:

| NFC-IP 1&2<br>Soecific modes<br>NFC Forum      | Reader<br>(PCD - VCD) | Card<br>(PICC - VICC)<br>(via SWP, NFC-WI, Host) |
|--|-----------------------|--|
| Active 106 to 424kbps<br>Initiator and Target  | ISO/IEC 14443 A & B   | ISO/IEC 14443 A & B (SWP only)                   |
| Passive 106 to 424kbps<br>Initiator and Target | ISO/IEC 15693         | Type B' (SWP only)                               |
| Reader for NFC Forum<br>Tags 1 to 4            | MIFARE 1K - 4K        | MIFARE (SWP,NFC-WI only)                         |
|  | FeliCa (1)            | FeliCa (SWP only)                                |

## RF Protocols supported:

- ❖ ISO/IEC 14443 Type A/B, R/W up to 848 kbits
- ❖ ISO/IEC 18092 FeliCa R/W up to 424 kbits
- ❖ NFC Forum tags (MIFARE Ultralight, Jewel, FeliCa open tag, ISO/IEC 14443-4)
- ❖ Support for MIFARE 1K, 4K
- ❖ Reading DESFire card
- ❖ ISO/IEC 15693/ICODE reader
- ❖ NFC-IP1/-2 protocols (ISO/IEC 18092 /ECMA 340 and ISO/IEC 21481/ECMA 352) 106 kbit/s to 424 kbit/s
- ❖ B' card emulation over SWP
- ❖ MIFARE card emulation over SWP
- ❖ FeliCa card emulation over SWP
- ❖ SWP/HCI (Single Wire Protocol) according ETSI/SCP standardization
- ❖ ISO/IEC 28361 (ECMA 373) NFC-WI interface to connect an external Secure Element restricted to 106 kbit/s. Signal In activation is not implemented.