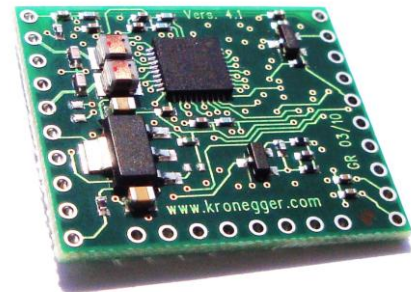


Kronegger NFC OEM Reader

The Kronegger NFC OEM Reader is a cost effective design for embedded NFC Low Power Modes are provided for portable applications. It reads and writes contactless tags compatible to ISO14443A and ISO14443B. The module also supports SAM-Controllers for high security applications. The compact design and the serial interface enables a fast integration. For operation an external antenna which is customized to the application is required. The module has up to 8 additional digital I/O pins.



Designed for smooth integration:

- Voltage supply range 3.3-5V for portable devices
- Services for design in, customization and support based in Europe.
- C# library for a fast integration to the world of PCs.
- Faster delivery and high quality through European production.
- Dedicated test signals for antenna tuning (optional).

Applications

- Kiosks
- High Security Applications
- Cashless Payment
- Vending Machines
- E-Mobility
- Public Transport
- E-Ticketing
- Printers

Specifications

Frequency	13.56 Mhz
Standard	MIFARE [®] Classic, ISO14443 A; ISO14443 B; 106-424 kBaud air interface speed, NFCIP1 passiv communication mode (initiator) 106-424 kb/s
Supported Tags	MIFARE [®] Standard, MIFARE [®] Ultralight, MIFARE [®] Desfire, MIFARE [®] Plus, MIFARE [®] Plus S, NXP SmartMx, MIFARE [®] Plus SL3, 14443A Controller, 14443B Controller, Felica, GTML, CTS/STM and more
Functionality	Serial number with anticollision. Full read and write support. Authentication support. APDU support. Bootloader for firmware updates.
Security	SAM support with and without external level shifter and multiplexer: T=0, T=1
Interface	CMOS-TTL serial, 1200 Bit/s to 115200 Bit/s, 8, N, 1; ASCII and binary protocol, C# library
Power Supply	3.3-5VDC ± 10% regulated, 20 - 100 mA depending on antenna and tag
Reading Distance	Up to 100 mm , depending on antenna
Antenna	External, symmetric HF interface
Inputs and Outputs	LED, 8 I/O ports shared with SAM interface, 3 test pins for signals from the reader IC, enable pin for power down
Dimensions	(LxWxH) 25.5x30.0x4.8mm ± (L/W) 0.5 (H)
Weight	5 g± 10%
Temperature Range	-20°C to + 80°C operational
Storage Temperature	-40°C to + 85°C
RoHS conformity	yes

Order numbers:

- Kronegger NFC OEM Reader without SAM-Support 0202-1003
- Kronegger NFC OEM Reader with SAM-Support 0203-1003