

Kronegger NFC+ OEM Reader

The Kronegger NFC+ OEM Reader is designed for embedded NFC Low Power modes are provided for portable applications. It reads and writes contactless tags compatible to ISO14443A, ISO14443B and Felica. NFC Modes for reader, peer to peer and card emulation are provided. The module supports SAM-Controllers for high security applications. The compact design and the serial interface enable 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 Standard	13.56 Mhz MIFARE® Classic, ISO 14443 A; ISO14443 B; 106-424 kb/s air interface speed, NFC passiv communication mode 106-424 kb/s, host based, NFC Card Emulation Mode, NFC active communication mode 106-424 kb/s, Felica
Supported Tags	MIFARE® Standard, MIFARE® Ultralight, MIFARE® Desfire, MIFARE® Plus, MIFARE® Plus S, NXP SmartMx, MIFARE® Plus SL3, 14443A Controller, 14443B Controller, Felica, CTS/STM and more
Functionality	Serial number with anticollision. Full read and write support. Authentication support. APDU support. Bootloader for firmware updates.
Security	2 x SAM interface supported with and without external level shifter and multiplexer Supported protocols are T=0 and T=1. Baudrates supported: 7168-1000000 bit/s
Interface	CMOS-TTL serial, 1200 Bit/s to 230400 Bit/s, 8, N, 1; ASCII and binary protocol, C# library
Power Supply	3.3 - 5VDC ± 10% regulated, 30 - 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, enable pin for power down, 2 SAM interface
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 with SAM-Support 0203-1013
- Kronegger NFC+ OEM Reader without SAM-Support 0202-1013