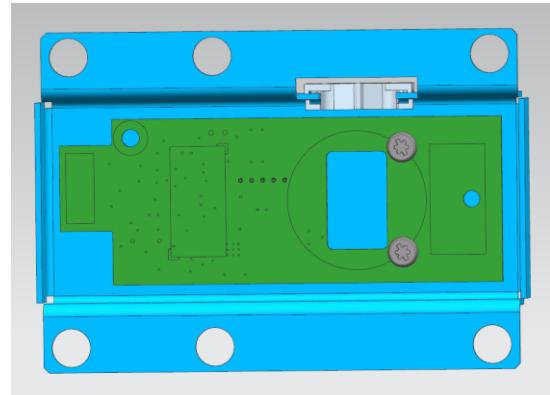
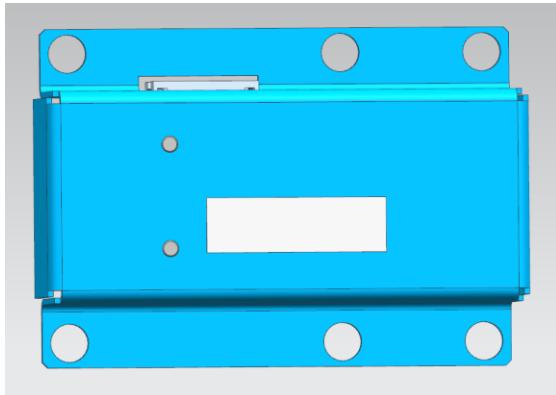


DIEBOLD
NIXDORF



KIT-NFC-KIOSK

RFID/NFC Reader

User Guide (May 2018)

**Please let us know your opinion
of this information document.**

Simply send us a copy of this page if you
would like to provide constructive criticism
in relation to one of the following areas:

- Contents
- Design
- Product

Thanks very much in advance
for your comments.

Yours sincerely,

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Your opinion

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1 Scope of document



Notes are marked with this symbol.



Identifies an action that requires caution.

The module may only be installed and connected by employees with the appropriate technical training.

2 Warranty

Diebold Nixdorf generally guarantees a warranty of 12 months beginning on the date of delivery. This warranty covers all defects that occur despite normal use of the product.

Defects due to

- improper or inadequate maintenance,
- improper use or unauthorized modification of the product or
- an unsuitable installation location or inadequate environment

are not covered by the warranty.

Other information in relation to regulations can be found in your contract.

None of the wear parts of the product is included in the warranty. Details in relation to the warranty provisions can be found in your contract documentation.

3 ESD (Electrostatic Sensitive Devices)



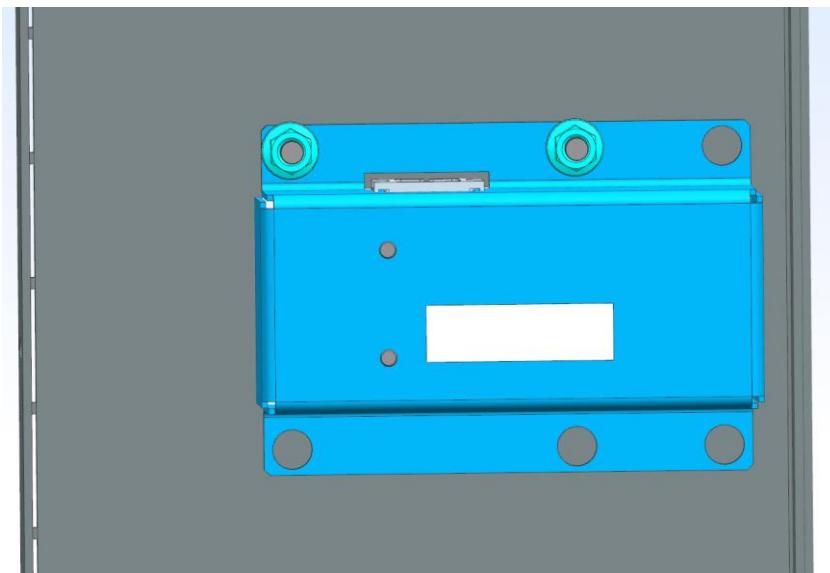
Components with electrostatic sensitive elements (ESD) can be marked by this label.

Note the following information when installing ESD components or modules. This information applies for all components with ESD:

- Make sure that the device is de-energized before connecting, removing or installing components with ESD.
- Always use the antistatic equipment.
- While working with ESD, discharge yourself permanently by means of an ESD wristband or a suitable grounding cable, which is connected to the protective conductor of a socket or other grounded object.
- Place all components with ESD on a suitable antistatic surface.
- Tools and equipment must be free of static discharge.
- Handle components with ESD only by their edges and do not touch any component parts.
- Never touch pins or conductors on an electrostatically sensitive component.

4 Installation

Install the module at two mounting points minimum.



5 Supported tags

The RFID/NFC Reader supports a broad range of tags compliant with ISO/IEC 14443 type A and B standards, including SR series tags from STMicroelectronics, tags which belong to the Philips MIFARE® family, ISO/IEC 15693 tags.

Table 1 below is a list of identified cards that are or will be validated. The list will expand when other card types are acquired. The user should be advised to select from this list when deciding the card to use.

Table 1: RFID/NFC reader module capability

Cards/Tags	Manufacturer	Protocol	Supported function		
			UID	Read Block	Write Block
ISO/IEC 15693					
LRI1K	STM	ISO 15693 part 3	✓	○	○
LRI2K	STM	ISO 15693 part 3	✓	✓	✓
LRIS2K	STM	ISO 15693 part 3	✓	✓	✓
LRIS64K	STM	ISO 15693 part 3	✓	○	○
M24LR-04	STM	ISO 15693 part 3	✓	✓	✓
Tag-it HF-I Standard Chip/Inlays	TI	ISO 15693 part 3	✓	○	○
Tag-it HF-I Pro Chip/Inlays	TI	ISO 15693 part 3	✓	✓	✓
Tag-it HF-I Plus Chip/Inlays	TI	ISO 15693 part 3	✓	○	○
ICODE SLIX SL2S20/21	NXP	ISO 15693 part 3	✓	✓	✓
ICODE SLI SL2 S20/21	NXP	ISO 15693 part 3	✓	✓	✓
ICODE SLI SL2 S50/51	NXP	ISO 15693 part 3	✓	○	○
ISO/IEC 14443 type A compliant					
Mifare Classic 1K	NXP	ISO 14443-A part 3	✓	✗	✗
Mifare Ultralight	NXP	ISO 14443-A part 3	✓	✗	✗
Mifare Ultralight C	NXP	ISO 14443-A part 3	✓	✗	✗
Desfire 4K	NXP	ISO 14443-A part 3	✓	✗	✗
Mifare Classic 1K	INFINEON	ISO 14443-A part 3	✓	✗	✗
QR2213	Fudan	ISO 14443-A	✓	✗	✗
FM11RF08	Fudan	ISO 14443-A part 3	✓	✗	✗
ISO/IEC 14443 type A NFC forum type2 tags					
NTag 203	NXP	ISO 14443-A Part 3	✓	✗	✗
ISO 14443 type B					
SRI2K	STM	ISO 14443-B part 2,3	✓	○	○
SRI4K	STM	ISO 14443-B part 2,3	✓	○	○

Cards/Tags	Manufacturer	Protocol	Supported function		
			UID	Read Block	Write Block
SRIX4K	STM	ISO 14443-B part 2,3	✓	✓	✓
SRI512	STM	ISO 14443-B part 2,3	✓	○	○
SRT512	STM	ISO 14443-B part 2,3	✓	○	○
Max66040E-000AA+	MAXIM	ISO 14443-B part 3	✓	✗	✗

Note:

✓: Supported

✗: Not supported

○: Supported but not validated

6 Technical data

Supported Standards	ISO/IEC 15693 ISO/IEC 14443 Type A ISO/IEC 14443 Type B
RF Operating Frequency	13.56 MHz
Host Interface	USB 2.0 Full speed
	HID 1.11
	Usage Page: 0xFF45, Usage: 0X2200
Rated Voltage	5.0 V
Rated Current	250 mA
Operating Temperature	0 ° C to 40 ° C
Device Firmware Upgrade	Firmware upgradable via DFU interface
Middleware support	JavaPOS 1.13
Operating Systems	Windows 7, Linux
Height x Width x Depth	125 mm x 72.8 mm x 34.2 mm
Weight	Approx. 102 g

7 Certificates



This device meets the requirements of the EU directives 2014/53/EU with regard to "Radio Equipment" and 2011/65/EU "Restriction of Hazardous Substances".

FCC	FCC-ID: 2AO4D-01750304421
ISED	IC: 23654-01750304421

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC-Class A Declaration

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications not authorized by the manufacturer may void users authority to operate this device.

This class A digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe A est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Diebold Nixdorf
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Order no.: 01750291985A