HF / NFC · 13.56 MHZ · DESKTOP READER-WRITER

IDR-302

Read and write 1K / 4K and NTAG cards from any PC, over one USB cable.

ISO/IEC 14443A | 1K / 4K (S50 / S70) | NTAG21x | USB virtual COM port | Clone-card detection

Issue, encode and check cards at the desk.

The **Identium IDR-302** reads and writes 13.56 MHz ISO/IEC 14443A cards and tags: 1K and 4K (S50 / S70) cards, Ultralight and NTAG21x, at up to 6 cm. On a PC it appears as a USB virtual COM port, and a command typically completes in under 100 ms.

Issue access and attendance cards, encode NFC stickers, top up canteen and transport cards, and check a card before it goes out. It also detects UID-cloned cards, so a copy is caught at the desk.



6 cm	<100 ms	USB VCP	60 mA	1.5 m
Read / write distance	Typical command time	Virtual COM port	Max. current, USB powered	Integrated USB cable

WHAT IS INSIDE

Read, write and protect in one reader

READ AND WRITE
13.56 MHz front end

- ISO/IEC 14443A cards and tags
- 1K / 4K (S50 / S70): sector read and write after key authentication
- Ultralight and NTAG213 / 215 / 216: page read and write
- Up to 6 cm, depending on the card

CONNECT
USB virtual COM port

- Appears as a serial port: 115,200 bps by default
- USB powered: 42 mA operating, 60 mA maximum
- Windows XP, 7, 10 and 11, and Linux
- 1.5 m integrated cable

PROTECT
Checks and feedback

- Detects UID-cloned cards
- Two LEDs, switched by your software
- Buzzer, switched by your software
- Typical command time under 100 ms

WHERE IT WORKS

Where cards are issued and checked

Access control
Issue and enrol door cards

Attendance
Staff and student ID cards

Canteen and POS
Closed-loop card top-ups

Transit and events
E-tickets and passes

Library and clubs
Membership cards

NFC encoding
URLs and IDs on NTAG tags

HOW IT WORKS

From card to your software, one command at a time

Card or tag
1K / 4K, Ultralight or NTAG21x on the reader, up to 6 cm

→

IDR-302
13.56 MHZ READER-WRITER
- Detect the card and read its UID
- Check for a cloned UID
- Authenticate the sector (1K / 4K)
- Read or write blocks and pages
- Signal with LEDs and buzzer

→

USB VCP
Virtual COM port at 115,200 bps; power from the same cable

→

Your software
Access, attendance, POS, library or your own application

Serial commands from any language
Anything that can open a COM port can drive the IDR-302: C#, Java, Python, C / C++. Ask for the command reference with your quote.

WHY THE IDR-302

Built for the card-issuing desk

Writes as well as reads
Issue new cards and update cards in use: 1K / 4K card sectors, Ultralight and NTAG21x pages.

Catches cloned cards
Detects cards carrying a copied UID, so a duplicate access or payment card is stopped before it is issued or accepted.

Encodes NFC tags
Write NTAG213 / 215 / 216 stickers, cards and wristbands, for example with an NDEF link your software formats, so phones can read them.

Talks to your software
A standard virtual COM port: no special card library, just serial commands at 115,200 bps.

Quick at the counter
Typical command time under 100 ms, so cards are encoded as fast as they are put down.

Feedback your app controls
Two LEDs and a buzzer, switched by your software to show a good read, a write or an error.

One cable, no adapter
Powered from the USB port, 60 mA at most, with a 1.5 m cable built in.

Windows and Linux
Runs on Windows XP, 7, 10 and 11 and on Linux. White or black housing to suit the counter.

SUPPORTED CHIPS

Cards and tags it reads and writes

CARD / CHIP	STANDARD	MEMORY	IDR-302
MIFARE Classic 1K (S50)	ISO/IEC 14443A	1 KB, 16 sectors	Read and write
MIFARE Classic 4K (S70)	ISO/IEC 14443A	4 KB, 40 sectors	Read and write
MIFARE Ultralight	ISO/IEC 14443A, NFC Type 2	64 bytes	Read and write
NTAG213 / 215 / 216	NFC Forum Type 2	144 / 504 / 888 bytes	Read and write
Other ISO 14443A cards	ISO/IEC 14443A	By card	UID

MIFARE, MIFARE Classic, MIFARE Ultralight and NTAG are trademarks of NXP B.V. Read distance depends on the card.

AT A GLANCE

- Reads and writes 1K / 4K, Ultralight and NTAG21x
- Detects UID-cloned cards

IN THE BOX

- IDR-302 reader with 1.5 m integrated USB cable
- Housing in white or black: give the colour with your order
- Test cards: our NFC starter kit has 1K / 4K and NTAG samples

ORDERING

IDR-302	HF / NFC desktop reader-writer, USB virtual COM port.
IDR-300	Keyboard-output version: types the card number into any app.

SPECIFICATIONS

Technical data

RF AND CARDS	
Frequency	13.56 MHz
Standard	ISO/IEC 14443A
Cards	MIFARE Classic 1K / 4K, MIFARE Ultralight, NTAG21x
Distance	Up to 6 cm (depends on the card)
Command time	Under 100 ms, typical
Security	UID-cloned card detection

POWER	
Supply	5 V DC from the USB port
Current	42 mA operating · 22 mA port closed · 60 mA maximum

INTERFACE AND SOFTWARE	
Host interface	USB, virtual COM port (VCP)
Baud rate	115,200 bps (default)
Operating systems	Windows XP, 7, 10, 11; Linux
Indicators	2 LEDs and a buzzer, software controlled

MECHANICAL AND ENVIRONMENT	
Dimensions	120 × 80 × 16 mm
Weight	100 g including cable
Cable	1.5 m, integrated USB
Colour	White or black
Operating temp.	–10 °C to +50 °C
Storage temp.	–20 °C to +70 °C

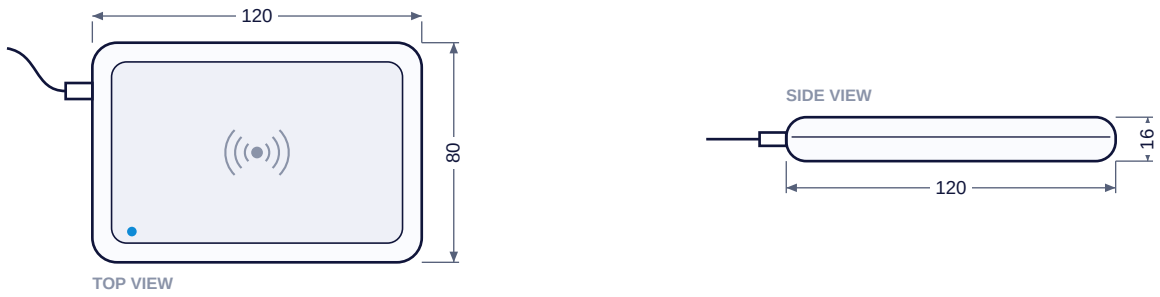
WHICH READER?

IDR-300 or IDR-302

	IDR-300	IDR-302
Output	Types the card number, as a USB keyboard	Answers commands over a USB virtual COM port
Software needed	None: plug in and type	Your application drives it by command
Cards	1K, 4K and Mini (S50, S70, S20) cards	1K / 4K (S50 / S70), Ultralight, NTAG21x
Reads	Card UID, as 10 digits	UID and card data; writes cards
Distance	About 10 cm, typical	Up to 6 cm
Clone-card detection	Yes	Yes
Best for	Attendance, login and lookups in software you already use	Issuing, encoding and topping up cards

MECHANICAL

Dimensions



Top and side views, mm. 1.5 m USB cable.

Try it with your own cards.

Ask for a quotation with the quantity you need, and tell us which cards you use, so we can confirm the IDR-302 reads and writes them.

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Read range depends on the card or tag, its size and the environment. Specifications are indicative and may change without notice; confirm details for your order in the quotation.