




Telethings LoNFC-1 LoRaWAN NFC Reader User Manual

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1. TELETHINGS NFC LORAWAN READER USER MANUAL

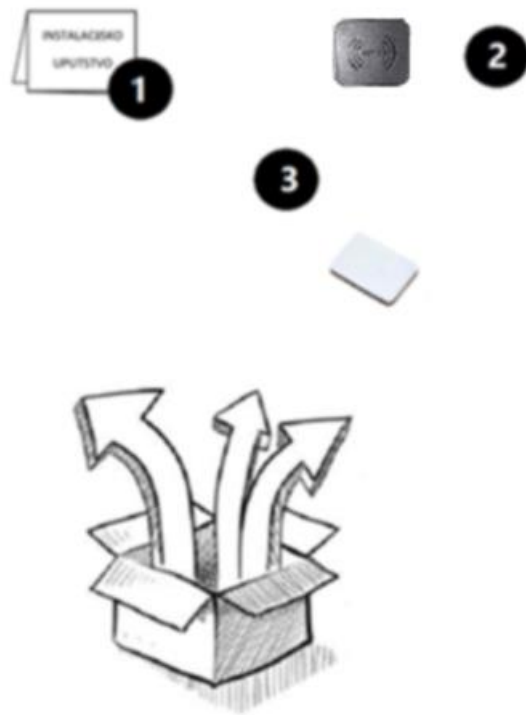
1.1. BASIC INFORMATION / PRODUCT DESCRIPTION

Wireless NFC reader is a device by which it is very simple to read NFC tag from Mifare 1k card and then that read tag is sent to server (and also seen on application). Device can be used if it's fixed on some location and user need to occasionally send from that location a tag due to, let's say, evidence that he was there at that moment.

Main advantages of NFC LoRaWAN reader are:

- Device is low energy consumer
- Device can change location while it works¹
- Device shows LED indicator while it is communicating with server
- Simple device installation
- Simple device handling

1.2. CONTENT OF THE BOX

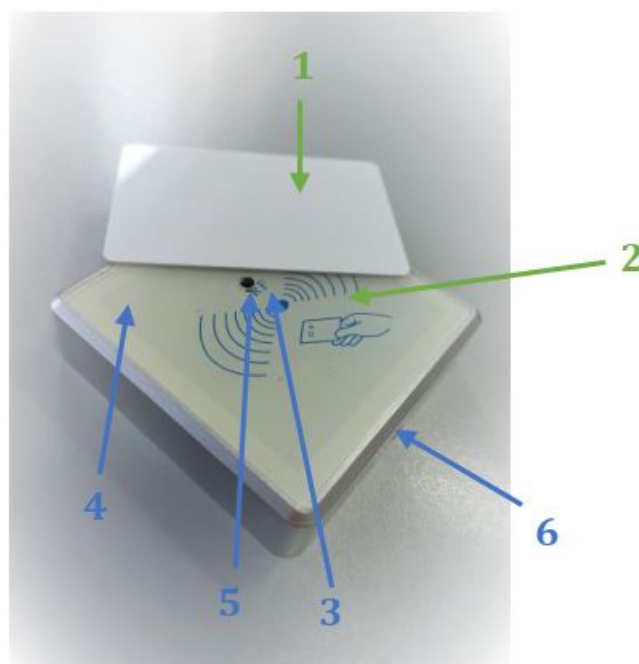


Picture 1. Content of the box

On picture 1. Content of the box is shown:

1. Installation manual
2. NFC LoRaWAN reader
3. Mifare 1k card

2. NFC LORAWAN READER MANUAL



Picture 2. NFC LoRaWAN reader

- 1 – Mifare 1k card
- 2 – NFC antenna field
- 3 – LED indicator
- 4 – Buzzer indicator
- 5 – Button for reading the Tag
- 6 – Switch for power supply

NFC LoRaWAN device (Picture 2.) is turned ON by pressing the switch for power supply, then it tries to connect with Gateway. With info bip (sound signal) and turning LED diode ON, attempting to connect with gateway starts, and finishes with other sound signal and turning LED indicator OFF. If connection with Gateway didn't happen, then error bip occurs, and if the device is successfully connected with Gateway, then warning bip occurs. After that, device is ready to work. In case that device didn't connect with Gateway during turning ON of the device, then it will try to connect after every communication attempt.

If the device is ready for work, button should be pressed and after that, in period of 5 seconds, card must be placed on NFC reader for device to read Tag and to send data on server. After pressing the button, info big occurs and at that moment device starts to count 5 seconds for Tag reading. If Tag is successfully read, device communicates with server and it turns ON LED indicator. After sending data to server, LED indicator will turn OFF and device is ready to read Tag again.

If device was ready to work and after 5 seconds it didn't read Tag, error beep occurs and device goes back to ready to work state.

2.1. RECOMMENDATION FOR USE

Install device on the place where it can make communication with LoRa Gateway. It's not recommended to install device (NFC LoRaWAN Reader) on unstable surfaces, or surfaces which are exposed to vibrations, due to a possible fall of device and physical damage. Keep devices as far as possible from impact of high humidity and liquid sources due to a possible damage of device's electronic components. Keep the device out of reach of children.



2.2. SPECIFICATION

2.2.1. NFC LORAWAN READER

| | | |
|-------------------------------|---|---------------|
| Description | Device for sending Tag from Mifare 1k card on server | |
| Server communication | After pressing the button and successfully reading the Tag from Mifare 1k card, device sends data to server | |
| Power supply | 3,6V battery | |
| Device dimensions | 8.5 x 8.5 x 2 cm | |
| Device weight | 60 gr | |
| Temperature | Storage temperature | -10°C - +60°C |
| | Operating temperature | 0°C - +60°C |
| Radio signal frequency | 868 MHz | |
| Communication range | Urban environments: up to 2- to 3-km-wide coverage | |
| | Rural environments: beyond 5 to 7 km | |

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|--|--|
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References

- [🌐 Telethings - PoAetna](#)