

Software for the CognIoT 125KHz RFID reader is available on GitHub. The purpose of the software is to demonstrate the capabilities and provide some working software as a platform for starting project development.

COMMANDS

Using the supplied software the following functions are available, each command being accessed by the letter.

- z - Display firmware version information
- S - Acknowledge presence of Tag
- F - Perform a Factory Reset
- P - Program EEPROM Polling delay
- v - Select reader operating mode
- R - Read Tag and PAGE 00 data
- r - Read Tag and BLOCK 04 data
- W - Write Tag and PAGE of data
- w - Write Tag and BLOCK of data
- A - Read ALL Pages 0 - 3f
- a - Read ALL Blocks 0 - 16
- e - Exit program

INSTALLATION INSTRUCTIONS

To install the software, follow these simple steps:-

1. Upgrade and Update the operating system
 - a. `sudo apt-get update`
 - b. `sudo apt-get upgrade`
2. Using Raspberry Pi Configuration, disable the shell and kernel from using the serial port.
 - a. From the Menu, select Preferences, Raspberry Pi Configuration
 - b. On the interfaces tab, set Serial to 'Disabled'
3. Install the necessary software to support the CognIoT demonstration application software.
 - a. `sudo apt-get install python-dev python-setuptools`
 - b. `sudo apt-get install WiringPi`
4. Install Cogniot Software
 - a. `git clone https://github.com/SiSoup/RFID_125kHz`
5. Both the C and Python versions can now be found in the newly created RFID_125kHz folder.
 - a. `cd RFID_125kHz`
6. To run the Python script, switch to the python directory and run it
 - a. `cd python`
 - b. `sudo python3 RFID-Reader.py`
7. To run the C program, it first needs to be compiled
 - a. `cd c`
 - b. `./Build`
 - c. It can be run with
 - d. `sudo ./RFIDReader`