



Txx.uo consolidates two contrasting radio frequency implementation modes: RFID reader scans the cards/objects containing RFID tags using radio waves and LCD screen displays a Q-code [internationally established three-letter abbreviation used in radio communication].

\*A particular Q-code denotes a question when it is followed by a question mark and references an answer [statement] when it's not:

QRT? : Shall I cease or suspend operation?  
QRT : I am suspending operation.

The RFID technology is used for object identification, authentication and security reasons, whereas Q-code is transmitted on a specific radio frequency by a radio operator and can be intercepted by anyone, who is tuned in to the same frequency.

This module converts the data received from a scanned card into a sound and binary code\*. This Binary signal is then transfigured into LED\*\* blinking and is also funneled to another module through an output\*\*\* channel. Top row of an LCD screen displays a specific question from the list of a Q-code, depending on a knob position and when receiving\*\*\*\* a signal from another module, a random Q-code answer is shown on the second row of the screen. All other textual output can be sent to another module via Tx\*\*\*\*\*.

- D3 o2 out
- LED 2 D7
- D5 o1 out
- D8 o5 in
- Tx o3 out

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## SOLDERING

### C O M P O N E N T S

15x1 female header [x2]	>> PCB [Nano]
15x1 male header [x2]	>> Nano
4x1 female header	>> PCB [ELCD1602-I2C]
8x1 Female Header	>> PCB [RFID]
8x1 male header	>> RFID
10k ohm potentiometer	>> A1 P in
LED	>> LED2 D7
10k ohm resistor	>>>>>>>>>>>>>>>>>>>>>> R1
220 ohm resistor	>>>>>>>>>>>>>>>>>>>>>> R2
220 ohm resistor	>>>>>>>>>>>>>>>>>>>>>> R3
3.5mm mono jack socket	>>>>>>>>>>>>>>>>>>>>>>>>> D5 o1 out
3.5mm mono jack socket	>>>>>>>>>>>>>>>>>>>>>>>>> D3 o2 out
3.5mm mono jack socket	>>>>>>>>>>>>>>>>>>>>>>>>> T5 o3 out
3.5mm mono jack socket	>>>>>>>>>>>>>>>>>>>>>>>>> A2 o4 out
3.5mm mono jack socket	>>>>>>>>>>>>>>>>>>>>>>>>> D8 o5 in
2 pins of 4-pin tactile push button switch	>>>>>>>>>>>>>>>>>>>>>>>>> Reset
5x2 male header	>> JP [bridge the second row by soldering]
Vactrol	>>>>>place the heads of an LED and LDR in a heat shrink tube. Heat up the tube and then: _ LED >> LED 1 [long leg of an LED >> square hole] _ LDR >> LDR 1

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Vo Ezn