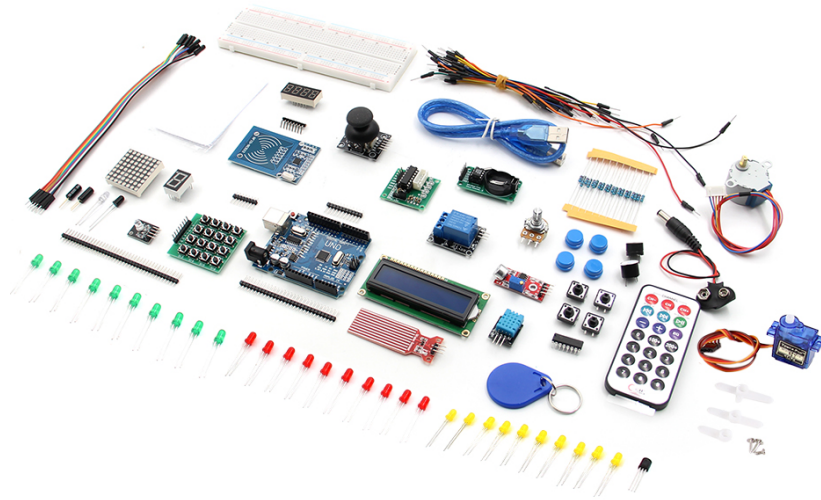




# Arduino RFID UNO Starter Kit

## Model: TA001 3



### Overview:

This Arduino Uno ultimate project kit includes comprehensive range of components to get you started in building and experimenting with Arduino projects. The "RFID Starter Kit for Arduino Uno" comes in a handy case and contains over 30 state-of-the-art components, devices and modules. This is a huge value starter kit includes lots of common electronic components and module Uno development board, LED's, resistors, sensors, LED displays, RFID readers, relays, stepper motors and more.

The wide range of peripherals included in the kit ensures the number of different experiments and applications you can build. In this instruction, we will walk through IR remote + the receiver, and MFRC522 13.56MHz IC by MIFARE.

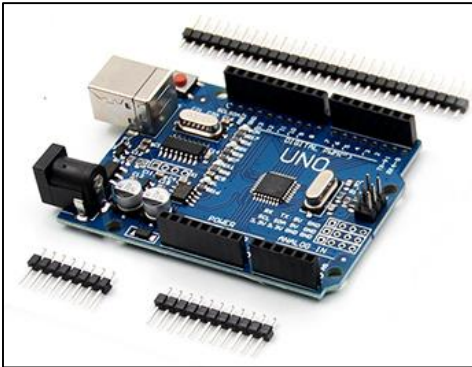
### RFID Fundamentals

RFID, or Radio Frequency Identification, is a system for transferring data over short distances (typically less than 6 inches). Often only one of the two devices need to be powered, while the other is a passive device. This allows for easy use in such things as credit cards, key fobs, and pet collars as there is no need to worry about battery life. The downside is that the reader and the information holder (ie credit card) must be very close, and can only hold small amounts of data.

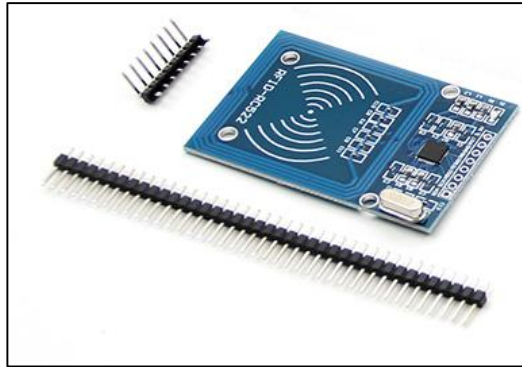
Each tag has a unique ID number that is read from the sensor and a microcontroller takes it from there. RFID cards/tags cannot hold data like a card with a magnetic strip, such as a metro card which keeps track of when it expires or runs out of money. However, a microcontroller can hold the data instead and have values increase and decrease for each time a recognizable card is swiped. In addition, unlike a magnetic strip card, RFID sensor do not have to make direct physical contact with the card and can sense a card from over an inch away.

## Arduino Kit Content:

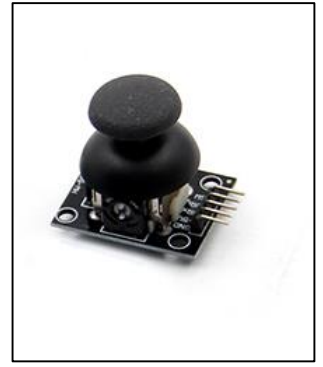
1x Arduino UNO



1x RFID Module



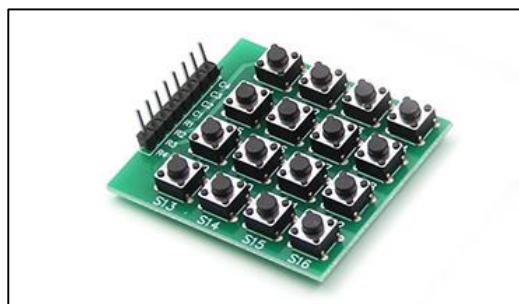
1x XY Joystick



1x 1602 LCD Module



1 X 4\*4 Keypad Module



1 X 5V Relay



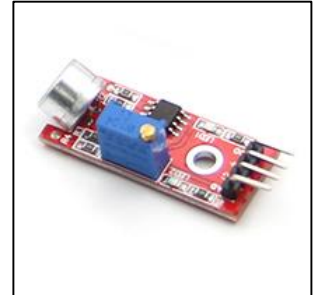
1 X Stepper Motor Driver Board



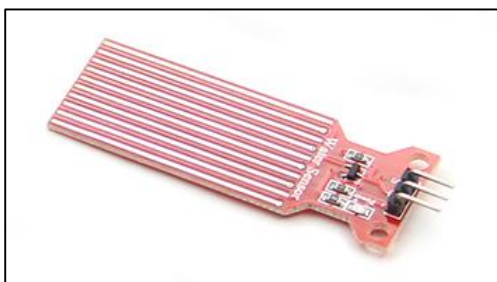
1 X Real Clock Module



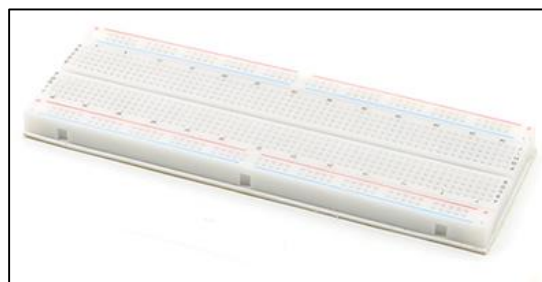
1 X Voice Detection



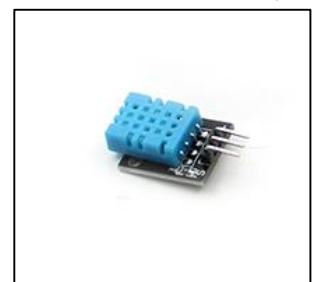
1xWater Level Sensor



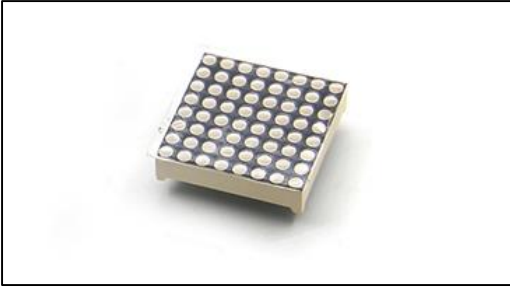
1x Bread Board



1xTemperature and Humidity Module



1 X 8\*8 Dot matrix Module



1 X IC Key Chain



1X 4 DIGITAL TUBE



1 X Infrared Remote Control



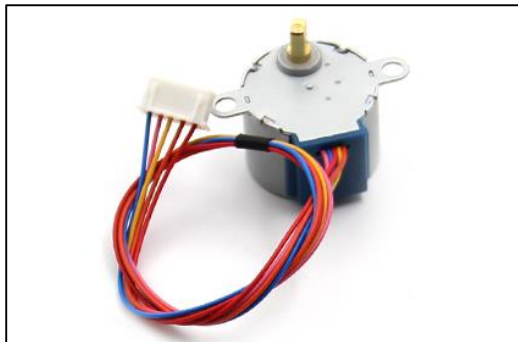
1x 9V Battery Clip



1x LED RGB



1x Stepper Motor



1x Servo Motor



4x Knob Round



Set of Resistors



1x IC Card



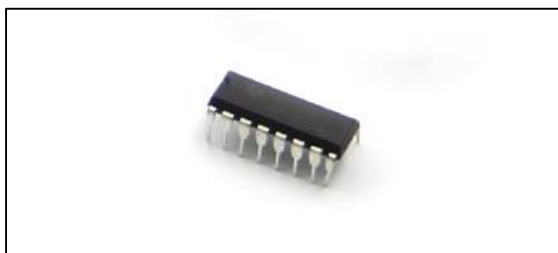
2x Buzzer



1x 10K Potentiometer



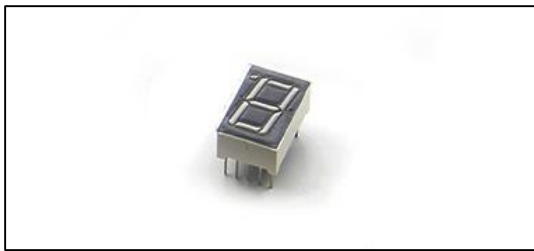
1X 74HC595N Register IC Chip



4x Tact Switch



1x Segment Digital LED



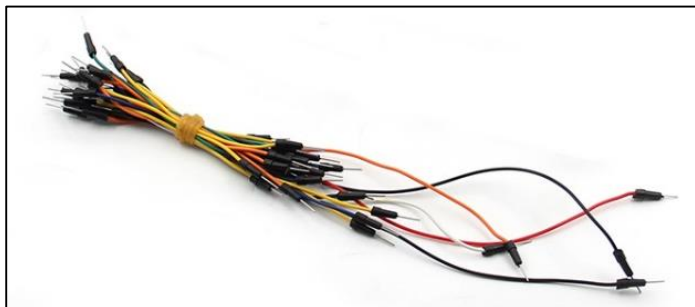
1x Shield Infrared



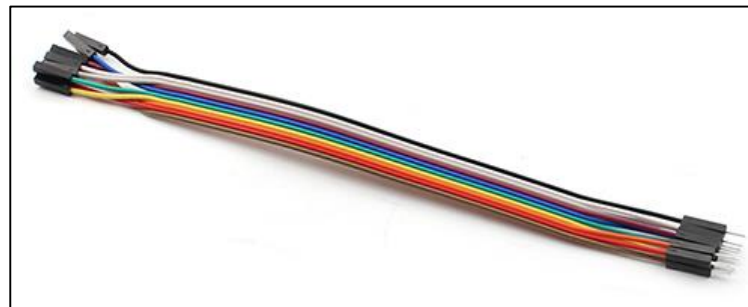
1x Flam Sensor



1x color DuPont line



1x Male to Female DuPont Line



1x Vibration Sensor



1x Transistor



1x USB Cable



Set of LED



*Made in China*