



## Starter Shield EN(Tick Tock shield) v2

SKU 104030047

This Starter Shield is a perfect choice for the beginners of Maker World. By playing with it, you can literally learn some basic skills that are required to be a maker, like soldering techniques, basic electronic circuit principles and programming skills. What? Afraid of soldering and programming? Don't worry, we've prepared a very detailed [Soldering Guide](#) and fully supported library of programming examples from easy level to hard level, you can always find something useful in it.

Starter Shield contains most commonly used components like buttons, light sensors, temperature sensors, buzzer and display etc. Once you finish the soldering task, you'll find out it's actually a geek style alarm clock which can auto adjust the brightness of display and keep in synch with real world time. Yet, you have to connect it to an Arduino/Seeeduino board and download the code first.

## Features

- Soldering friendly through-holes
- Alarm clock in geek style
- All-in-one platform for beginners
- Arduino/Seeeduino compatible

## Part List

- 1x Buzzer 3V;
- 1x CAP Aluminum 100uF-16V;
- 1x Temperature Sensor-10k;
- 1x LS06-S phototransistor
- 4x RES 10K-5%-1/4W;
- 4x RES 220R-5%-1/4W ;
- 3x RES 4.7K-5%-1/4W;
- 2x Blue Male Header VERT;
- 2x Blue Male Header VERT;
- 1x Blue Female Header VERT;
- 1x Lithium-ion Battery 3V-40mAh;
- 1x SMD Battery Cell Holder Plastic;
- 1x IC Driver;
- 1x RTC Clock/Timing;
- 2x IC Socket;
- 3x Button Top;
- 2x Black Round Female Header VERT;
- 1x LED Green-Green;
- 1x LED Blue-Blue;
- 2x LED Red-Red;
- 1x LED 7-SEG-Red;
- 1x Crystal 32.768KHz-12.5pF-20ppm-30K;
- 2x CAP Ceramic Disc 1nF-50V-20%;
- 1x CAP Ceramic Disc 100nF-25V;
- 1x Starter Shield Soldering Guide
- 1x Starter Shield PCB

## Technical details

Dimensions	140mm x75mm x29mm
Weight	G.W 66.5g
Battery	Lithium Cells/Batteries packed with equipment UN3481 -PI966

## Part List

Buzzer 3V	1
CAP Aluminum 100uF-16V	1
Temperature Sensor-10k	1
LS06-S phototransistor	1
RES 10K-5%-1/4W	4
RES 220R-5%-1/4W	4
RES 4.7K-5%-1/4W	3
Blue Male Header VERT	2
Blue Male Header VERT	2
Blue Female Header VERT	1
Lithium-ion Battery 3V-40mAh	1
SMD Battery Cell Holder Plastic	1
IC Driver	1

RTC Clock/Timing	1
IC Socket	2
Button Top	3
Black Round Female Header VERT	2
LED Green-Green	1
LED Blue-Blue	1
LED Red-Red	2
LED 7-SEG-Red	1
Crystal 32.768KHz-12.5pF-20ppm-30K	1
CAP Ceramic Disc 1nF-50V-20%	2
CAP Ceramic Disc 100nF-25V	1
Starter Shield Soldering Guide	1
Starter Shield PCB	1

**ECCN/HTS**

ECCN	EAR99
HSCODE	8531909000
ROHS	1

