



# 8BITMIXTAPE NEO

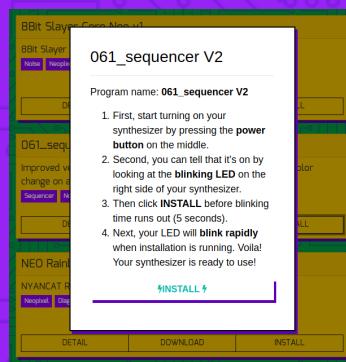
The 8Bit Mixtape NEO is a lo-fi 8Bit synthesizer based on the Arduino-compatible ATTINY85, featuring 2 Pots, 2 Buttons and 8 addressable RGB Neo-pixels. Choose from a large collection of community contributed Sequencers, Noise Generators & Synths. Multiple Mixtapes can be connected to each other using CV input/output and synced to other standard gear (KORG, Pocket Operators and more).

## Tiny Audio Boot

The key feature of the new 8Bit Mixtape NEO is the easiness of uploading new codes using an audio communication protocol, means just playing a .wav sound file from your computer/smart phone (or walkman). Adjust volume to 50-70% if you encounter troubles during upload.

## Arduino Compatible

Create your own custom synthesizers or filter using the popular Arduino IDE platform. Many examples help you to learn about DDS (Direct Digital Synthesis) using the 8Bit microcontroller ATTINY85.



## Kit Content

- 7x 22 kOhm 1206 Resistor SMD
- 2x 1 kOhm 1206 Resistor SMD
- 2x 4,7 kOhm 1206 Resistor SMD
- 2x 330 Ohm 1206 Resistor SMD
- 3x 100 nF 1206 Capacitor SMD
- 1x 10 µF 1206 Capacitor SMD
- 2x LED 3528 (pow and out) SMD
- 8x NEO-Pixel (5050 SK6812) SMD

1x pre-loaded ATTINY85 DIL

- 2x Push Button
- 2x 10 kOhm lin Potentiometer
- 2x Coloured Knobs
- 2x AudioJack 3.5mm switched
- 2x AAA Battery Holder
- 1x ON/OFF Switch
- 1x DIL-8 IC-Socket
- 1x Audio Cable



## CREDITS

The 8Bit Mixtape NEO has been developed since Winter 2017 by dusjagr, ChrisMicro (RoboterClub Freiburg), Budi Prakosa (badgeek/manticore) and many others! It is the continuation of years of research on lofi Attiny synths of SGMK and Lifepatch since 2012.

Hardware and sales by Center for Alternative Coconut Research

[SHOP.8BITMIXTAPE.CC](http://SHOP.8BITMIXTAPE.CC)



# 8BIT MIXTAPE NEO

OPEN SOURCE LO FI 8BIT SYNTHESIZER



PCB DESIGN BY DUSJAGR  
MADE IN INDONESIA / TAIWAN / SWITZERLAND

## SGMK LIFEPATCH Technical Specs

### CREDITS

DUSJAGR  
MANTICORE  
SQUARESOLO  
CHRISMICRO  
ANTIRENDER  
STAHL OLI PIN  
ANYMA REDFRY  
WOLFGANG YAIR  
TAKE AND FRIENDS

LOFI 8BIT SYNTHESIZER  
ATTINY85 8BIT PROCESSOR

ARDUINO COMPATIBLE

TINY AUDIO BOOT

FULLY OPEN SOURCE

2 POTS 2 BUTTONS 2 LEDs

8 RGB NEOPIXEL LEDs

CONNECT VIA CV AND SYNC

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