HANSY

1 WELCOME

The TTGO DRUM is a lo-fi 8 bits drum Machine.

It is very basic bit I think you can have a lot of fun with it. Just tweak the different parameters, add some good external effects

You have 8 instruments in the TTGO DRUM (almost the same as the KEIO Drum machine)

- *GU Guiro*
- *BG Bongo*
- *BD Bass Drum*
- *CL Clave*
- *CW Cow Bell*
- *MA Maracas*
- *CY Cymbal*
- *QU Quijadas*

The preset patterns are dividing into two parts
Those patterns can be modified but are not saved
11 patterns 16 steps

HARD ROCK
DISCO
REGGAE
ROCK
SAMBA
RUMBA
CHA-CHA
SWING
BOSSANOVA
BEGUINE
SYNTHPOP

5 patterns 12 steps

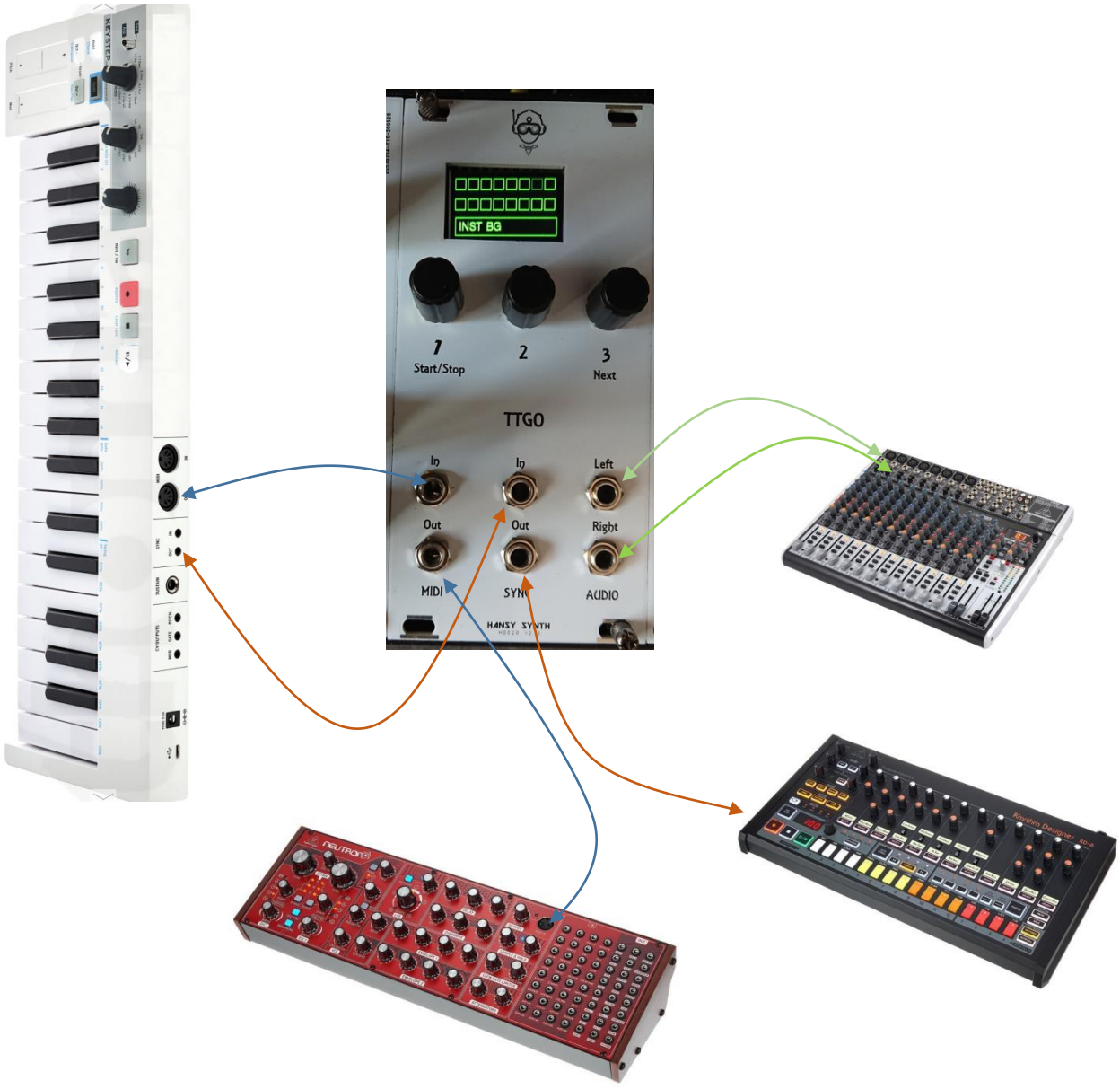
BOOGIE
WALTZ
JAZZ ROCK
SLOW ROCK
OXYGEN

You have also 8 user patterns 16 steps and 8 user patterns 8 steps

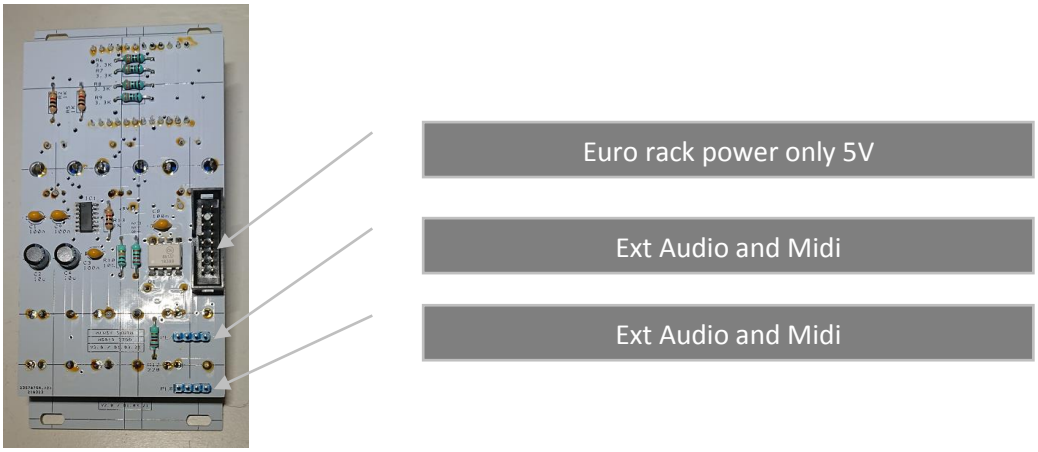
So a total 32 patterns

2 CONNECT YOUR TTGO

2.1 Front panel

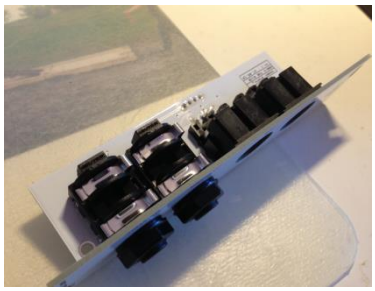


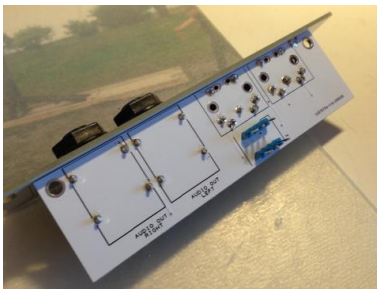
2.2 Back panel



2.3 Extension board

If you want the regular Midi and jacks connectors you can add an extension board that duplicates the Midi and Jack mini connectors





3 THE USER INTERFACE

In the screen you have three labels. In the most cases the encoder 1 change the label 1, the encoder 2 the label 2 and the encoder 3 ……

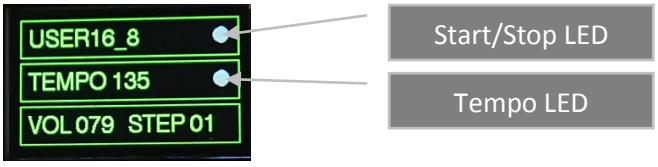
4 SAVE THE PARAMETERS

Every time you change a parameters the TTGO save it.

So when you restart you TTGO you are at the same point

5 DIFFERENTS SCREENS

5.1 PATTERN-TEMPO-GENERAL VOLUME



1 TURN	Select a pattern
1 PUSH	Start or Stop the pattern
2 TURN	Change the tempo from 10 to 240
2 PUSH	-
3 TURN	Change the general volume from 0 to 100
3 PUSH	Go to the next screen

5.2 DELAY

1 TURN	Set the delay time from 0 to 100
1 PUSH	Start or Stop the pattern
2 TURN	Set the volume of the delay from 0 to 100
2 PUSH	-
3 TURN	Set the Feedback of the delay from 0 to 100
3 PUSH	Go to the next screen

5.3 VOLUME FOR EACH INSTRUMENT

1 TURN	Select the Instrument
1 PUSH	Start or Stop the pattern
2 TURN	Set the volume of the instrument 0 to 100
2 PUSH	-
3 TURN	-
3 PUSH	Go to the next screen

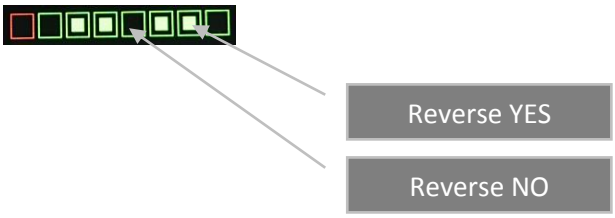
5.4 PAN FOR EACH INSTRUMENT

1 TURN	Select the Instrument
1 PUSH	Start or Stop the pattern
2 TURN	Set the pan of the instrument 0 to 100
2 PUSH	-
3 TURN	-
3 PUSH	Go to the next screen

5.5 DECAY/SIZE FOR EACH INSTRUMENT

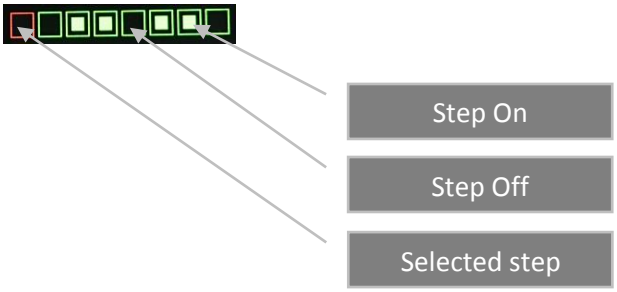
1 TURN	Select the Instrument
1 PUSH	Start or Stop the pattern
2 TURN	Set the Decay/Size of the instrument 0 to 100
2 PUSH	-
3 TURN	-
3 PUSH	Go to the next screen

5.6 REVERSE FOR EACH INSTRUMENT



1 TURN	Select the Instrument
1 PUSH	Start or Stop the pattern
2 TURN	-
2 PUSH	Reverse Yes or No
3 TURN	-
3 PUSH	Go to the next screen

5.7 BUILD A PATTERN



1 TURN	Select the Instrument
1 PUSH	Start or Stop the pattern
2 TURN	Select the step (follow the red square)
2 PUSH	Step instrument on/off
3 TURN	-
3 PUSH	Go to the next screen

5.8 MIDI PITCH AND COLOR

1 TURN	Turn up or down the global pitch
1 PUSH	Start or Stop the pattern
2 TURN	Select the Rx midi channel
2 PUSH	-
3 TURN	Select the Color of the interface
3 PUSH	Go to the next screen

6 MIDI CHART

6.1 MIDI SYSTEM AND REAL TIME MESSAGE

MIDI START
MIDI STOP

6.2 MIDI PROGRAM CHANGE

Program change from 0 to 31

6.3 MIDI CONTROL CHANGE

MIDI_CC_TEMPO	5

Volume for each instrument

MIDI_CC_VOL1	10
MIDI_CC_VOL2	11
MIDI_CC_VOL3	12
MIDI_CC_VOL4	13
MIDI_CC_VOL5	14
MIDI_CC_VOL6	15
MIDI_CC_VOL7	16
MIDI_CC_VOL8	17

Pan for each instrument

MIDI_CC_PAN1	20
MIDI_CC_PAN2	21
MIDI_CC_PAN3	22
MIDI_CC_PAN4	23
MIDI_CC_PAN5	24
MIDI_CC_PAN6	25
MIDI_CC_PAN7	26
MIDI_CC_PAN8	27

Size for each instrument

MIDI_CC_SIZE1	30
MIDI_CC_SIZE2	31
MIDI_CC_SIZE3	32
MIDI_CC_SIZE4	33
MIDI_CC_SIZE5	34
MIDI_CC_SIZE6	35
MIDI_CC_SIZE7	36
MIDI_CC_SIZE8	37

Reverse for each instrument (<64 OFF >64 ON)

MIDI_CC_REV1	40
MIDI_CC_REV2	41
MIDI_CC_REV3	42
MIDI_CC_REV4	43
MIDI_CC_REV5	44
MIDI_CC_REV6	45
MIDI_CC_REV7	46
MIDI_CC_REV8	47

Delay parameters

MIDI_CC_DELAY_TIME	50	
MIDI_CC_DELAY_VOL	51	
MIDI_CC_DELAY_FEED	52	
MIDI_CC_GVOL	60	// Global Volume
MIDI_CC_PITCH	61	// Global pitch
MIDI_CC_COLOR	62	// Screen color