

# Documentation

Pi1541 - Switch

Project number: 112

Revision: 1

Date: 26.02.2019

# Pi1541 – Switch Rev. 1

## Module description

### Description

The Pi1541-Switch is a detachable switch board for the Pi1541 HAT (project number 111). The connector to the Pi1541 HAT is placed on the solder side of the PCB.

### Switches

The switches have functions according to the firmware and configuration, which can be found at this website: <https://cbm-pi1541.firebaseio.com/>

The default configuration is:

Switch	Function
SW1 (left)	Select/Reset
SW2	Move Up/Previous Disk
SW3	Move Down/Next Disk
SW4	Exit Folder
SW5 (right)	Insert Disk

### LEDs

LED	Color	Function
LD2	Green	Power Indicator
LD1	Red	Busy Indicator

### Connector

X3: 8p Micro Match, female, THT (Tyco or alternative)

The ribbon cable can also be soldered in directly.

Pin	Signal
1	/SW1
2	/SW2
3	/SW3
4	/SW4
5	/SW5
6	LED_OUT (LD1)
7	+3V3
8	GND

### Measures

Can be found in the board print out

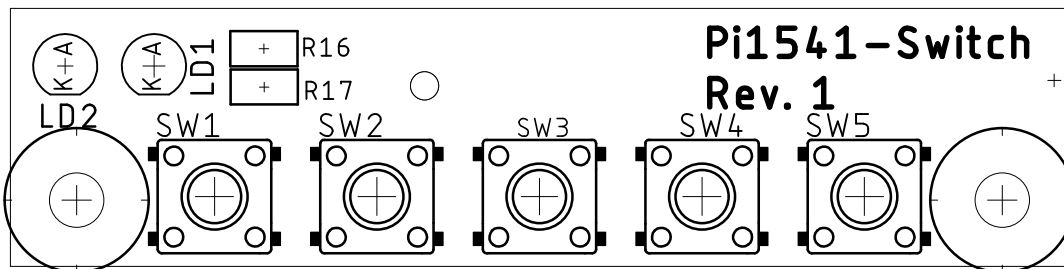
### Revision History

Rev. 0: Prototype

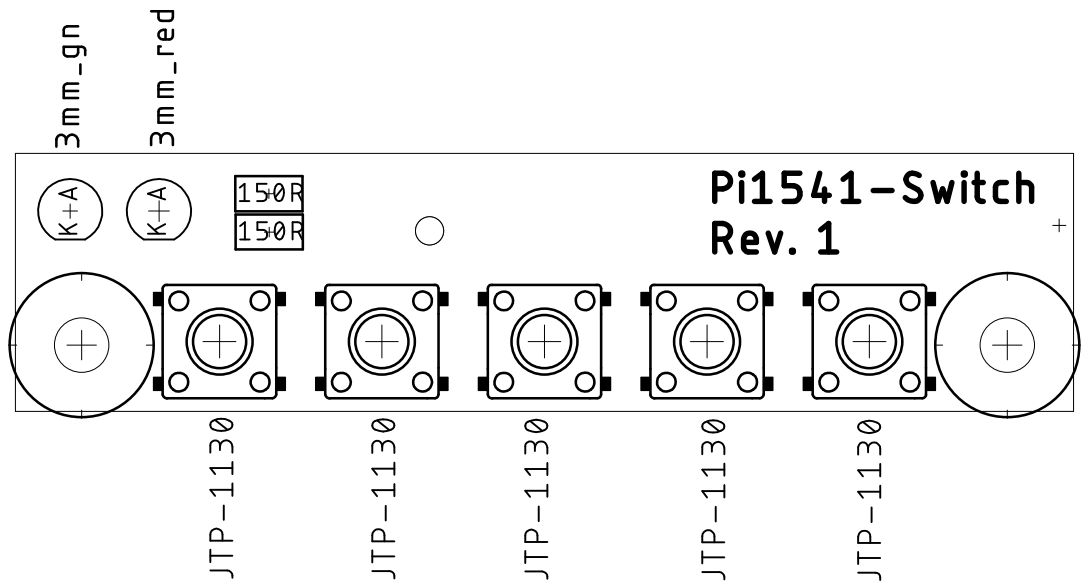
Rev. 1: Moved the connector X3 to the solder side

A4

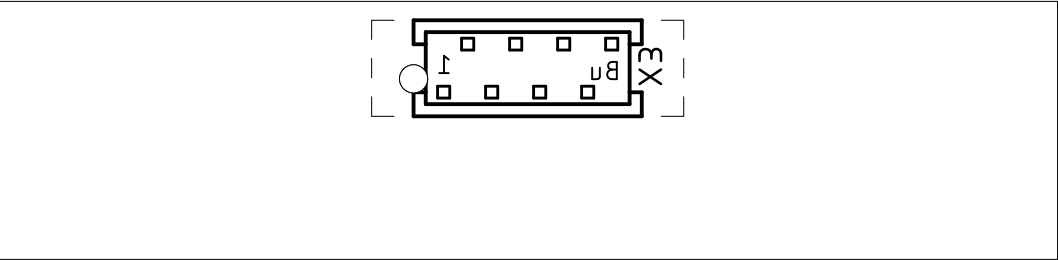
Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
26.02.2019 16:11		Rev.: 1
placement component side		



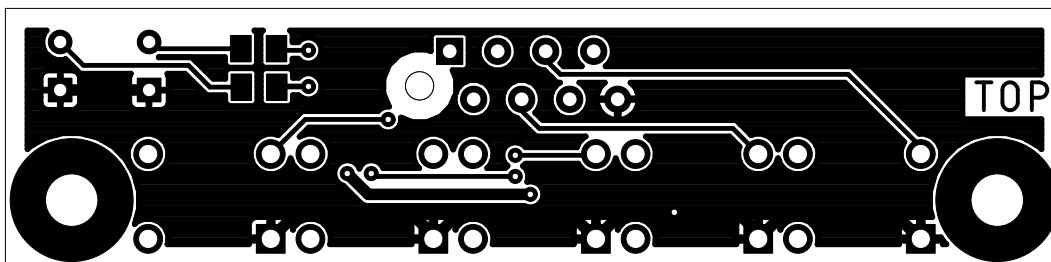
Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
placement component side		



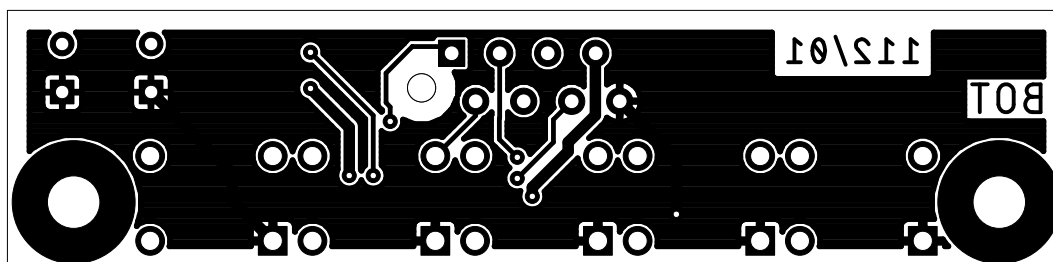
Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
qbjz 19bJoz tne9c6Jq		



Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
top		

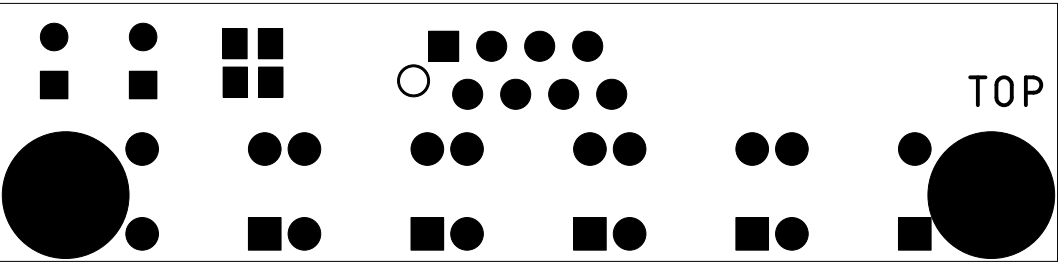


Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
bottom		

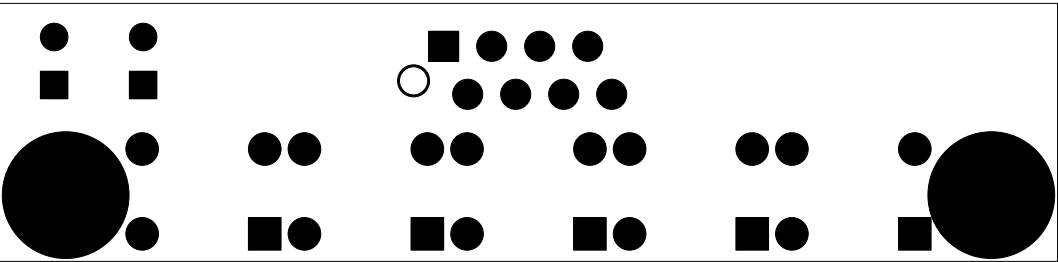




Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
stopmask component side		



Sven Petersen 2019	Doc.-No.: 112-2-01-01	
	Cu: 35µm	Cu-Layers: 2
Pi1541_Switch		
nicht gespeichert!		Rev.: 1
stopmask solder side		





## Pi1541-Switch Rev. 1

### Bill of Material Rev. 1.0

Pos.	Qty	Value	Footprint	Ref.-No.	Comment
1	1	112-2-01-01	2 Layers	PCB Rev. 0	2 layers, Cu 35 $\mu$ , HASL, 13.65mm x 56.0mm, 1.6mm FR4
2	1	369-1-008	MICMA08B	X3	MPE Garry, Reichel MPE 369-1-008, Micromatch, female, tht, 8 pin
3	2	150R	0805	R16, R17	resistor
4	1	3mm_gn	3MM	LD2	LED, 3mm, green
5	1	3mm_red	3MM	LD1	LED, 3mm, red
6	5	JTP-1130D	JTP-1130	SW1, SW2, SW3, SW4, SW5	Namae Electronics, Reichelt JTP-1130, H=13mm