

SiCK-68

Affordable, 3D Printed, Hand-wired, DIY Mechanical Keyboard



Layout
Tada68

Switches
MX Style - Brown

PCB
Teensy/Handwired

Keycap Profile
OEM/Standard

PCB
Teensy/Handwired

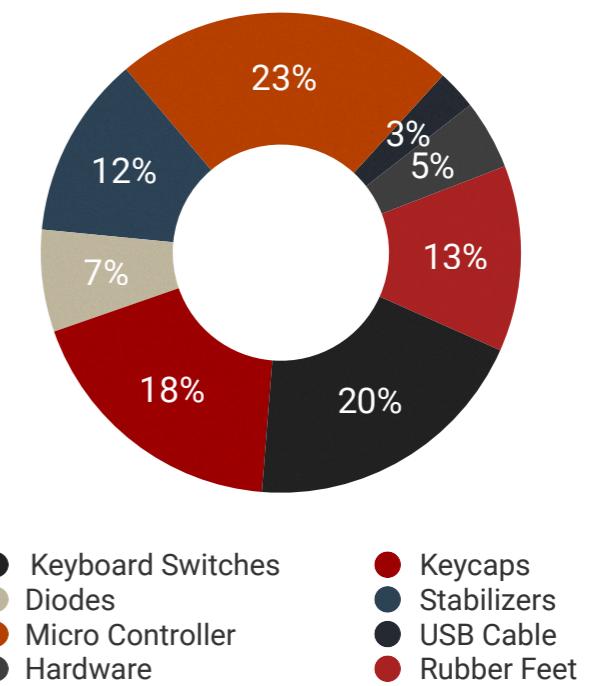
Dimensions
319x122x20mm

The SiCK-68 DIY keyboard is a completely custom keyboard built from scratch without the price tag often associated with one. Designed to be as low cost as possible, "SiCK" stands for Super, Inexpensive, Cheap, Keyboard. It's not for everyone but if it peaks your interest, you will need access to a mountain of patience, a 3D printer, soldering iron and equipment, and the desire to learn, create, and build. The result is a great keyboard that is functional, good looking as well as fully customizable with the help of EasyAVR or similar software. The Tada68 layout is the perfect mixture of a compact design and a functional layout without much compromise. If you like the sound of that, let the fun begin.

COST BREAKDOWN

Item	Description	Quantity	Total Cost
Keyboard Switches	Bsun - Brown - MX Style	70	\$9.38
Keycaps*	104 Keycap Set	1	\$8.81
Diodes	1N4148	100	\$3.29
Stabilizers	Costar - 1x6.25u, 3x2u	4	\$5.89
Micro Controller	Teensy 2.0 (Replica) - Mega32u4	1	\$10.98
USB Cable	Mini-B USB Cable	1	\$1.28
Hardware	6-32x 1/2" Flat Head, Countersunk, Machine Screw	12	\$2.24
Rubber Feet	Self Adhesive Rubber feet -	~20	\$6.00
Case	3D Printed	1	**
Misc 3D Printed Parts	Tada68 "Custom" Keys (shift, alt, fn, ctrl, page up/down)	6	**
Soldering Equipment	Iron, Solder, Flux, Tip Cleaner, etc.	1	**
Budget Total			\$47.87

COST OVERVIEW



- Keyboard Switches
- Keycaps
- Diodes
- Stabilizers
- USB Cable
- Hardware
- Rubber Feet

Use sites such as eBay or AliExpress to get the cheapest prices on these items and be patient. Sometimes, it can take up to 40 days to receive your items. Shop around, read seller feedback, and buy from reputable sellers.

* The example SiCK-68 shown in photos above has 4 keycap sets (blue, white, gray, red) but you only need one.

** I did not include the cost of the 3D printed case, 3d printed key caps, or soldering equipment as the equipment required to make them was available to me. These items can heavily vary in price depending on quality and accessibility. Do your research and decide if this is for you. With that said, buying a 3D printer and a soldering iron can provide you with many other uses outside of keyboard cases and key caps. You can buy an iron to learn with for around \$30 and a printer such as an Ender 3 for \$180. The world is your oyster.

Links to items:

- **SiCK-68 Case & Custom Keycaps STL:** (Thingiverse link)
- **Gallery:** (Imgur)
- **Keyboard Switches:** <http://tiny.cc/at2s3y>
- **Keycap Set:** <http://tiny.cc/1v2s3y>
- **Diodes:** <http://tiny.cc/kt2s3y>
- **Stabilizers:** <http://tiny.cc/es2s3y>
- **Micro Controller:** <http://tiny.cc/yt2s3y>
- **USB Cable:** <http://tiny.cc/aq2s3y>

HANDWIRED TADA68

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