

48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switches

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**PokeMon**

48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switches

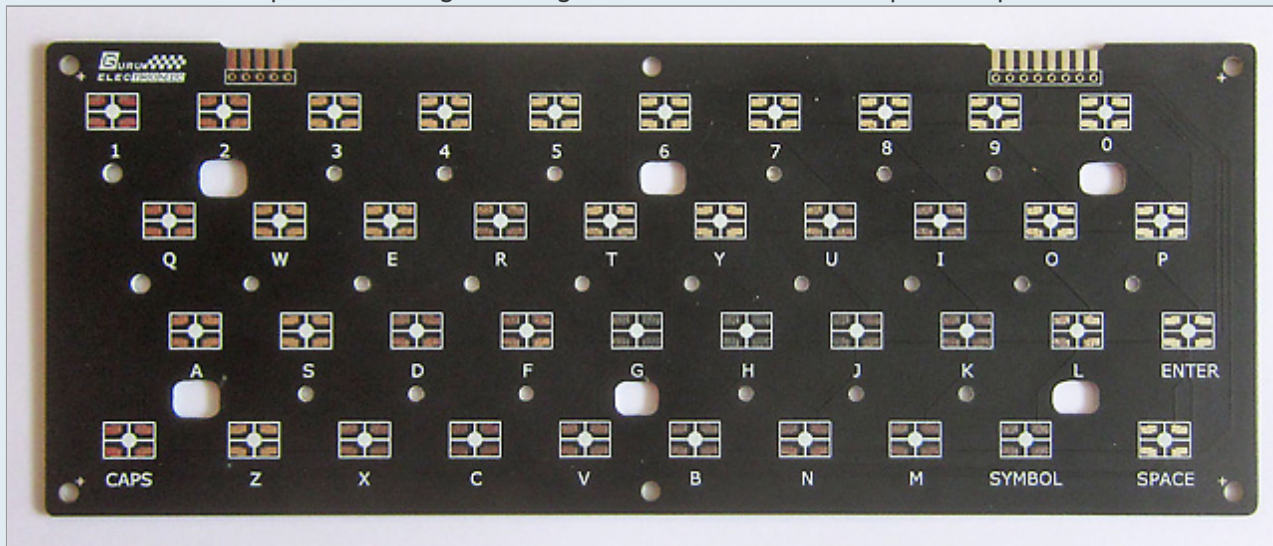
Fri Oct 17, 2014 12:07 am

Especially for the Harlequin and due to some member request on the german board I developed a keyboard with a printed cover panel which can be plugged into any ZX Spectrum 16k/48k board as well. The SMD tactile switches give a reasonable keyboard feeling for easy typing and are a longlife solution with specified minimum 500,000 key presses.

The attachment [IMG_7924kks.jpg](#) is no longer available

There are 2 versions existing:

48K-KDLXS as standalone with the printed keyboard layout on the cover - for use with the harlequin or any other ZX Spectrum where the rubber mat or faceplate is missing or damaged. The board fits into the plastic top cover from the case.



[IMG_7924kks.jpg](#) (111.68 KiB) Viewed 5585 times

48K-KDLXR for use under the original rubber mat and faceplate instead of a standard membrane. This version requires other tactile switches than the version with the printed cover panel.



IMG_8003kks.jpg (147.96 KiB) Viewed 5585 times

The connection to the main board is made with MOLEX jumper cables of type 25001 which will fit into the MOLEX connectors. They cable jumpers have a rigid core which is flexible enough to bend the cable in a sharp curve as needed for the small ZX Spectrum case.



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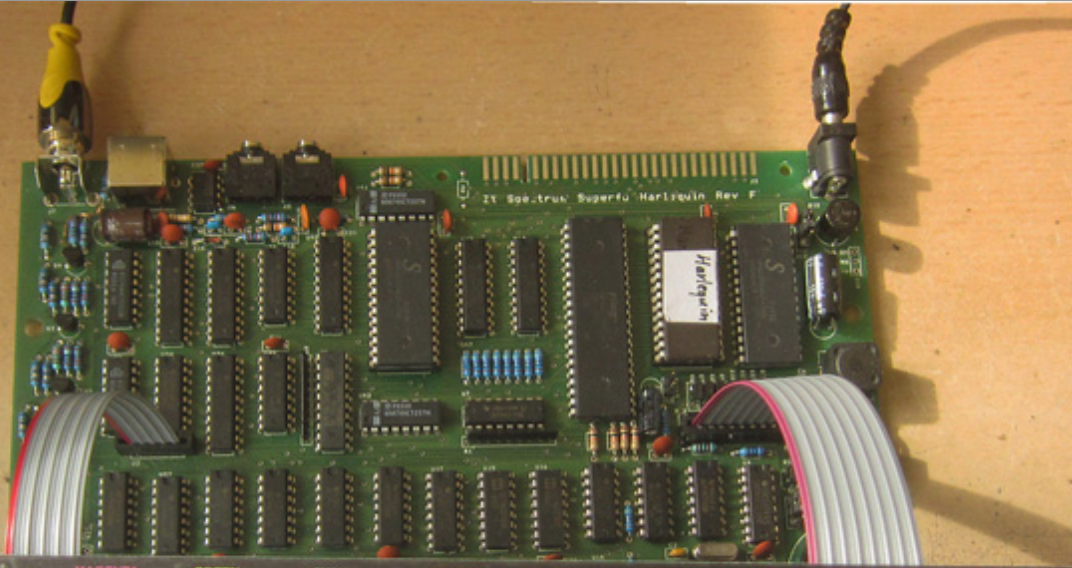


Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Fri Oct 17, 2014 12:12 am

Here are some more pics to see ...

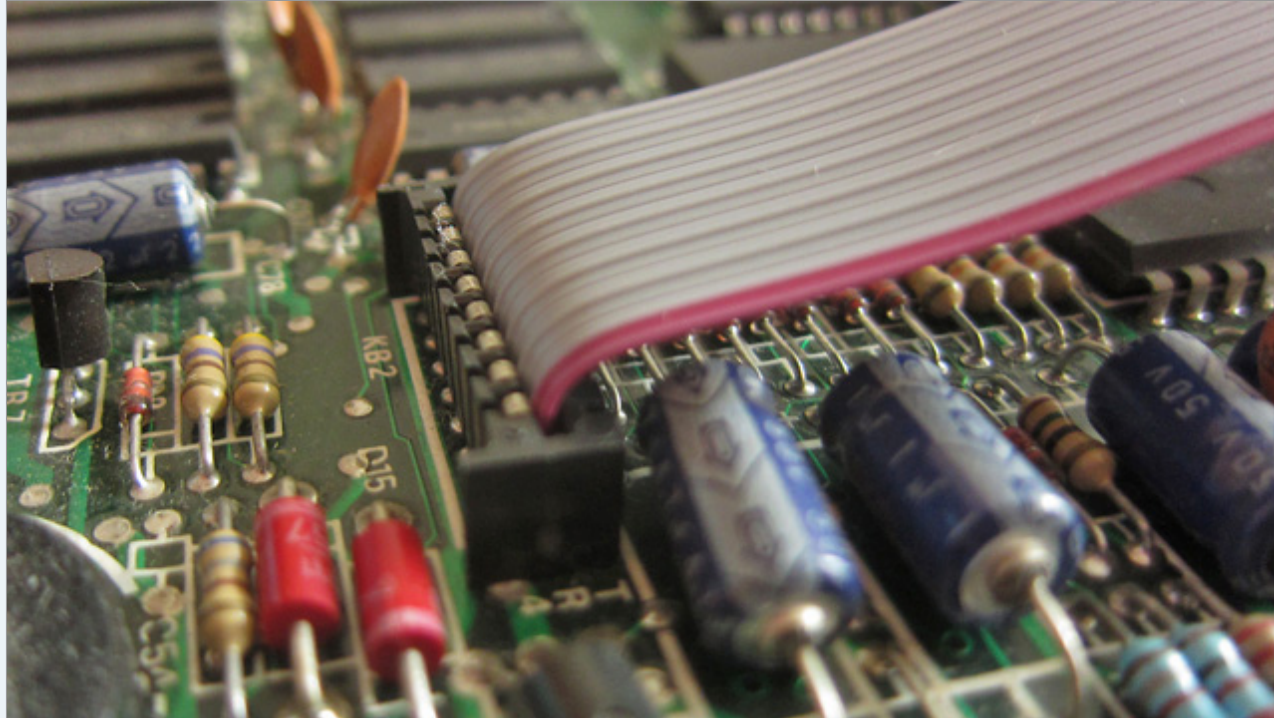
The standalone version 48K-KDLXS



IMG_7998kks.jpg (148.84 KiB) Viewed 5583 times



IMG_8006kks.jpg (72.07 KiB) Viewed 5583 times



IMG_7953kks.jpg (121.21 KiB) Viewed 5583 times


Last edited by [PokeMon](#) on Fri Oct 17, 2014 12:17 am, edited 1 time in total.



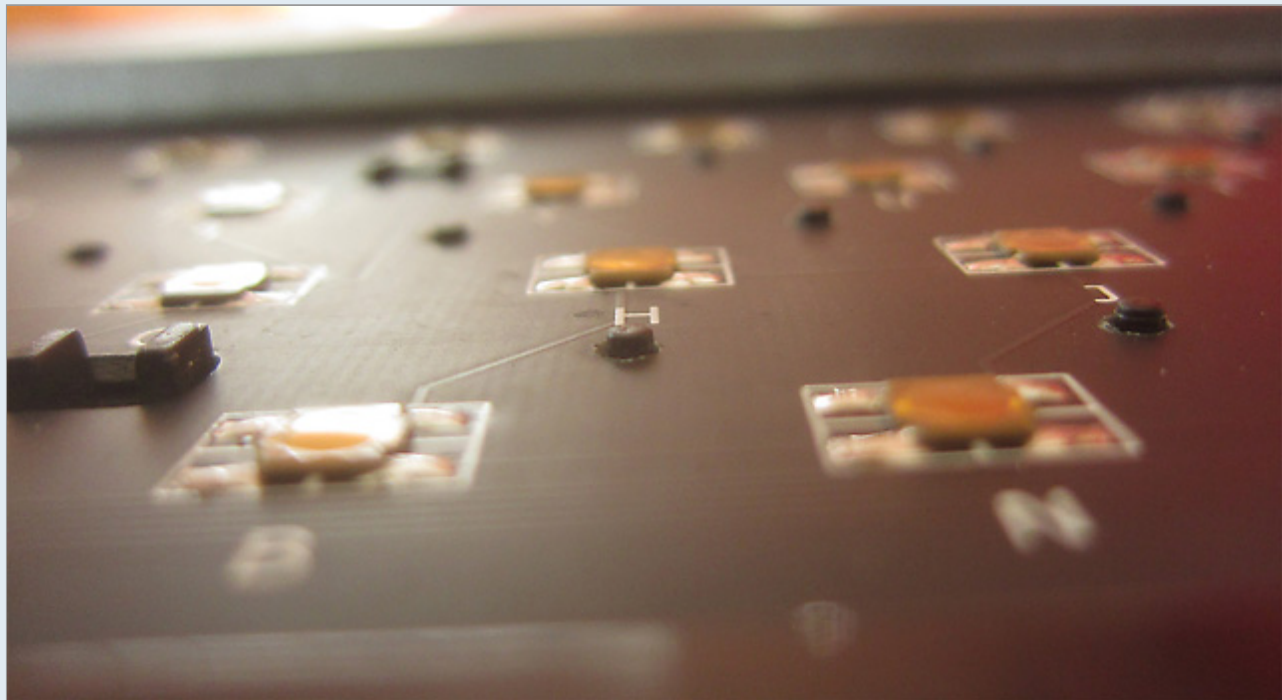
PokeMon



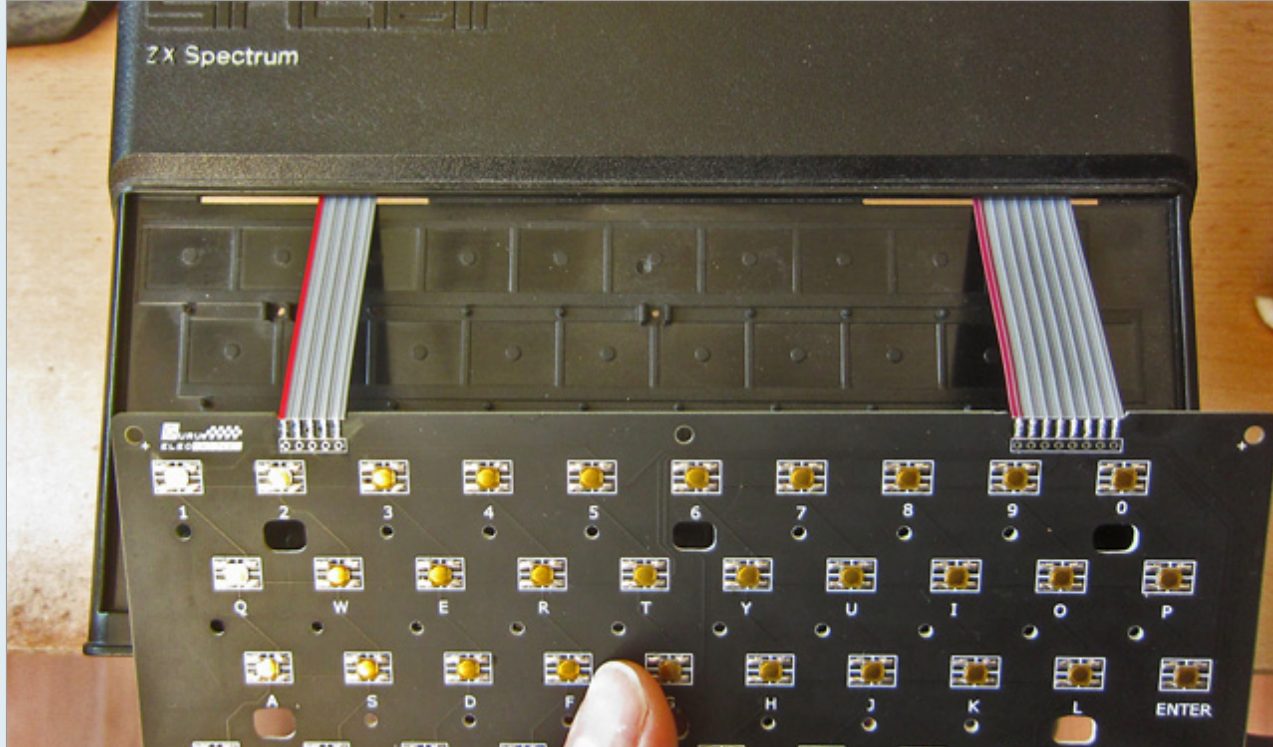
Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

 Fri Oct 17, 2014 12:16 am

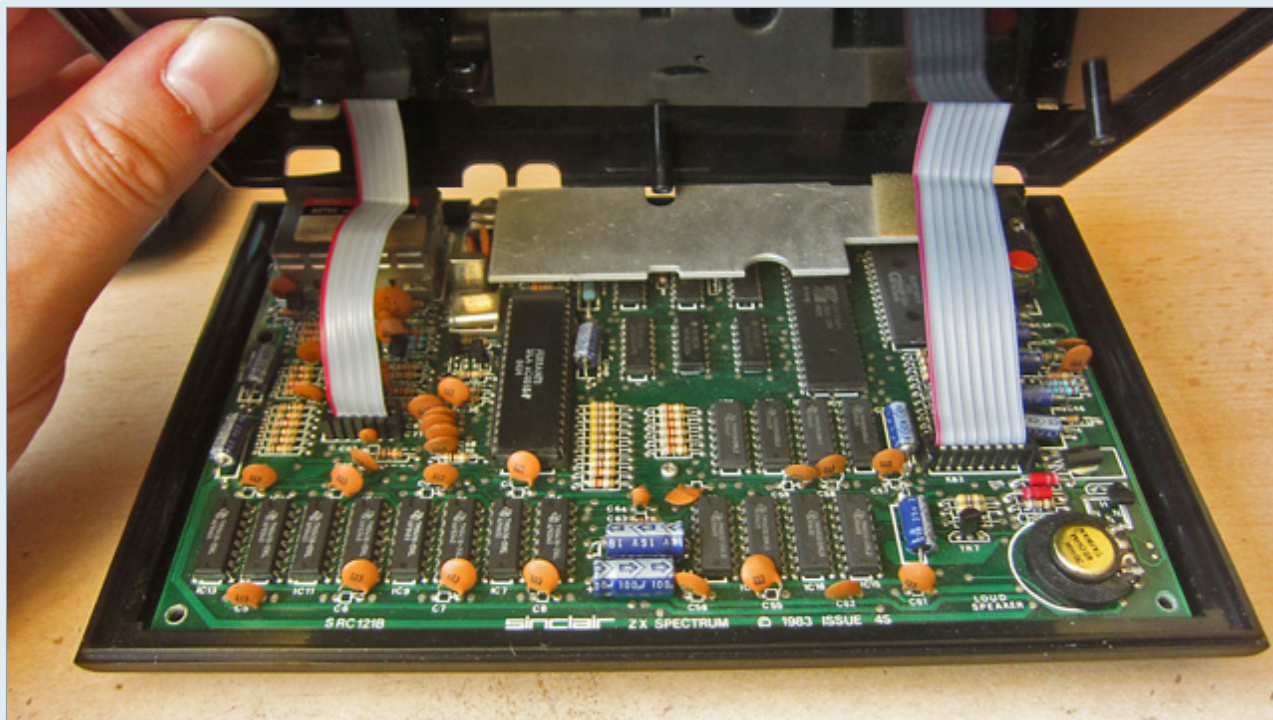
The rubber mat version 48K-KDLXR ...



IMG_7935kks.jpg (66.81 KiB) Viewed 5583 times



IMG_7963kks.jpg (132.02 KiB) Viewed 5583 times



IMG_7966kks.jpg (151.08 KiB) Viewed 5583 times



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Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Fri Oct 17, 2014 12:18 am

The switches for the rubber mat version have a reduced height of 0.55mm while the keyboard pcb is also smaller with 1.2mm. The height will be approx. 1 to 1.5 mm more than with the standard membrane.



IMG_7965kks.jpg (137.12 KiB) Viewed 5585 times



IMG_7969kks.jpg (142.6 KiB) Viewed 5585 times



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Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Fri Oct 17, 2014 12:21 am

The standalone version may also be used as replacement for a rubber mat / faceplate combination (if not good anymore):



IMG_8007kks.jpg (156.09 KiB) Viewed 5585 times



IMG_8008kks.jpg (153.46 KiB) Viewed 5585 times



IMG_8009kks.jpg (115.52 KiB) Viewed 5585 times



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Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Fri Oct 17, 2014 12:24 am

They are available now at [sellmyretro.com](http://www.sellmyretro.com) as PCB only, assembly kit or as complete soldered/mounted keyboard.
<http://www.sellmyretro.com/user/profile/PokeMon/>

Have fun. 😎

fatbob_gb



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Tue Oct 21, 2014 11:57 am

I have just recieved my zx81 version & it is very nice indeed, any idea when the zx80 one will be available?



PokeMon



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Tue Oct 21, 2014 9:16 pm

Thanks for feedback.

I have the printed covers for ZX80 keyboard layout as well but not sure how it could be used reasonably in a ZX80 as the ZX80 does not have the Molex connectors.

I have the idea to use it with some spring contacts at the main board, not tested yet myself.

So how would you like to use it and with what kind of hardware / connection ? 😊

fatbob_gb



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Tue Oct 21, 2014 10:33 pm

I was thinking of using it with a ZX81 motherboard converted to ZX80, either that or buy the kit and then use the switches & membrane on my ZX80 core.



yerzmyey



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Thu Oct 30, 2014 10:38 am

Hmm, there is too much on the profile. I'm totally confuse what is what.

What is better, Pokemon - the mat (along with the normal rubber keyboard) or the standard membrane? What does work better? What will "live" longer?

PS: Anyway, in some time I might go for this one



just to have one in one of my Spectrums although I wonder too, what is more... "resilient / vital", You know.

IN NIHILUM REVERTERIS - a big text-adventure game for ZX81: <http://tiny.pl/q2m6m>
"MONOCHROME" issue 5 - (Spring 2014) free paper/PDF magazine about ZX81: <http://tiny.pl/q2m44>
ZX81 COMPETITIONS 2007/2009: <http://zx81.republika.pl/>

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Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Thu Oct 30, 2014 3:42 pm

“ yerzmyey wrote:

Hmm, there is too much on the profile. I'm totally confuse what is what.

What is better, Pokemon - the mat (along with the normal rubber keyboard) or the standard membrane?
What does work better? What will "live" longer?

Sorry for confusing information.

Yes, they are available as boards, sets (assembly kits) and complete keyboards in two versions.

So in the moment I would prefer the 48K-KDLXS with the printed cover (membrane) and the tactile switches (the one you see in the picture you linked).



There is no really experience in long life in reality but this should last forever, hopefully.
The switches are 500.000 keypresses (each switch) - not 100% sure about the printed cover with mechanical stress.
Anyway I can promise that you really have a nice keyboard type feeling and very easy to type. I love it.
And it depends on how much you type - just pressing LOAD and use the joystick or if you do quite more.

About the rubber mat version - I did some tests with the rubber mat and the 48K-KDLXS as well and this would be even better than the 48K-KDLXR but this comes with a price - it is a bit too high for the faceplate. So I am thinking of maybe producing a second, very small board with 0,6 or 0,4 mm height which would fit better into the case with the higher ALPS switches and the printed cover on it and then the rubber mat and faceplate.

But not decided 100% now - depends on the sale of the other boards (48K-KDLXS) as well a bit on the general interest in a "longlife keyboard" for the rubber mat. We will see ... 😊



yerzmyey



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

📅 Thu Oct 30, 2014 5:38 pm

Hmmm, OK.
It's still a most interesting and crazy idea 😊 and I would be grateful - although I realize it takes some time - if You could show here all the ready-versions of the keyboards, with photos, name and prices.
I would copy the stuff into one of our forums, and also I could use it privately, to check out what can I buy 😊 (if not at the moment, then in forthcoming months).
Regards,
Y

PS: I wonder what would be the best glue to put it there. I mean - it must be kinda strong because it must be steady. On the other hand, supposedly the keyboards will not last forever, so maybe it shouldn't be any SUPER-glue? 😊

IN NIHILUM REVERTERIS - a big text-adventure game for ZX81: <http://tiny.pl/g2m6m>
"MONOCHROME" issue 5 - (Spring 2014) free paper/PDF magazine about ZX81: <http://tiny.pl/q2m44>
ZX81 COMPETITIONS 2007/2009: <http://zx81.republika.pl/>



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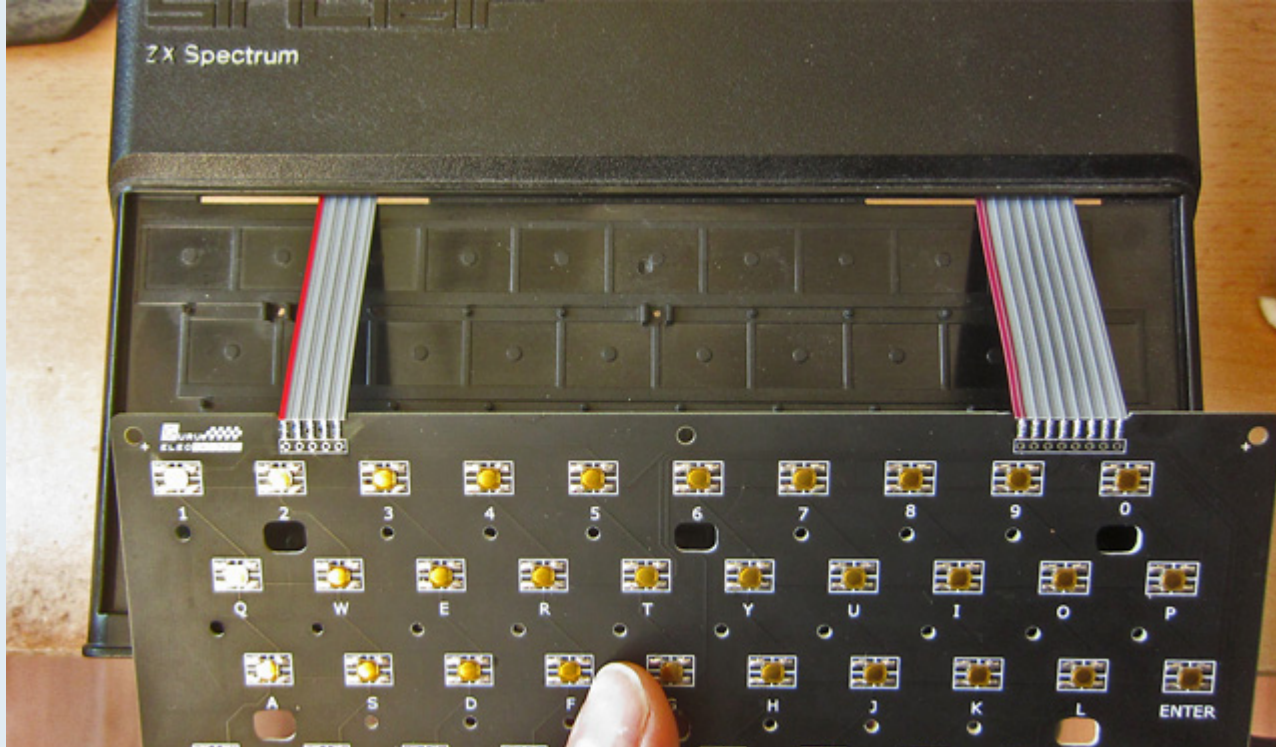


Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

📅 Fri Nov 14, 2014 1:09 am

There are 2 versions existing (all available as mounted version, assembly kit or the PCB only).
Available at sellmyretro. 😊
<http://www.sellmyretro.com/user/profile/PokeMon>

48K-KDLXR for use with the rubber mat (placed under the rubber mat):



48K-KDLXS as complete keyboard without rubber mat/faceplate:



Nikolay



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Wed Mar 11, 2015 10:50 am

Could you post the keyboard working files?



PokeMon



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Wed Mar 11, 2015 12:22 pm

You can buy the boards or complete kits here:

<http://www.sellmyretro.com/user/profile/PokeMon>

Nikolay



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Wed Mar 11, 2015 3:39 pm

Thank you, I wanted to do on their own.



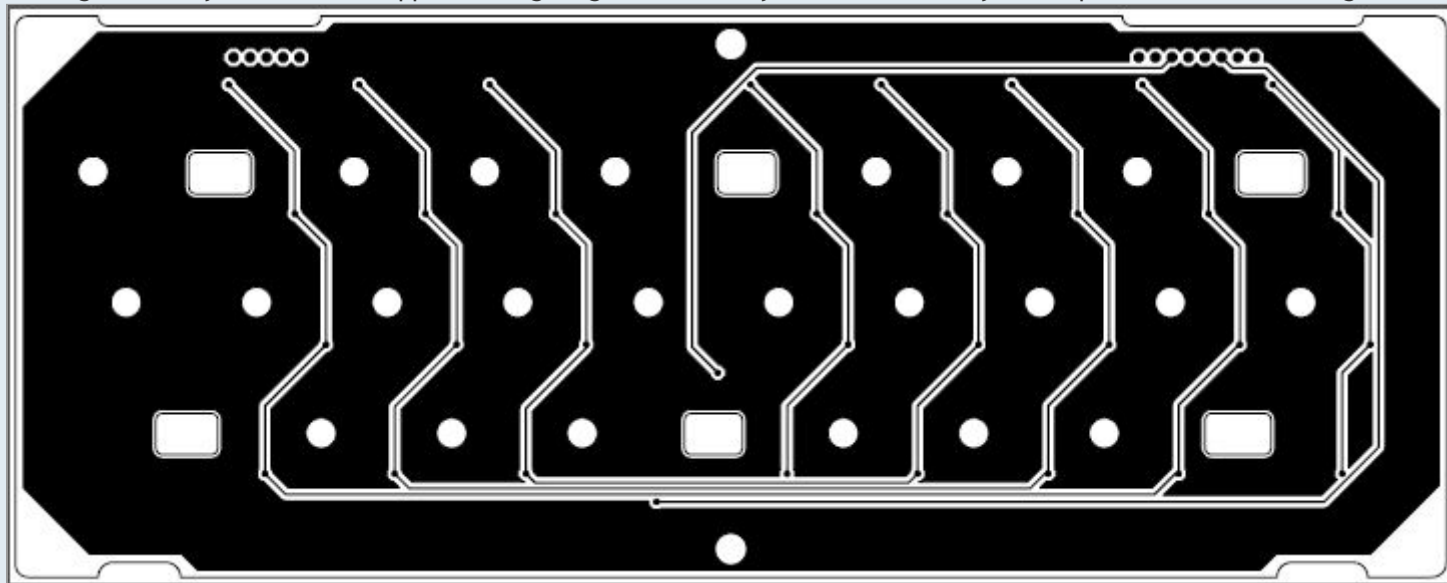
PokeMon



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Sun Sep 06, 2015 1:01 pm

After several month sold out and due to still user requests for the 48k keyboard pcb version, I decided to make a series of new boards. The pcb is modified now and 1/3 thinner (now 0.8mm instead of 1.2mm) but will have the same or even better stability by making it on 2 layers and wide copper areas giving more stability and less flexibility in comparison to the first single sided version.



backside.jpg (31.57 KiB) Viewed 5346 times

There are still both versions available, the standalone version with printed membrane on it and the version to use with the original rubber mate of the 16/48k spectrum in the original case. The thinner board will let the cover (faceplate) better close and the smd tactile switches used are the same as for the standalone version or the ZX8-KDLX (for ZX81). This will give a better type of feeling as well. First I was afraid that the ALPS tactile switches could lose its position under the rubber keys (the middle of the cross inside every key) - but there are many noses which hold all keys straight in position and this works very well and give a better feedback when using the keyboard while less force is needed to press the keys.

So stay tuned - in approx. 2-3 weeks it should be available.



PokeMon



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Sun Sep 27, 2015 4:22 pm

So the 48K-KDLX keyboards are available again in both versions:

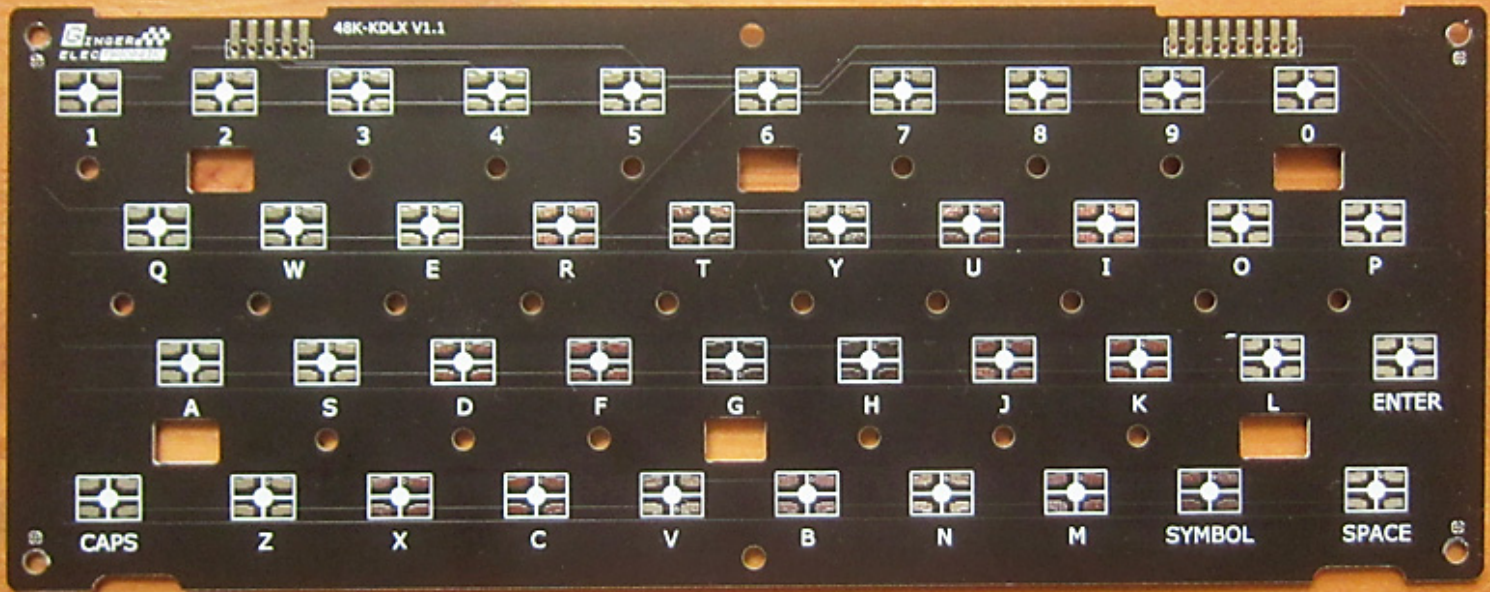
* 48K-KDLXR for use with/under the rubber mat and faceplate

* 48K-KDLXS as standalone version or to use with a 16K/48K ZX Spectrum or Harlequin clone without rubber mat / faceplate

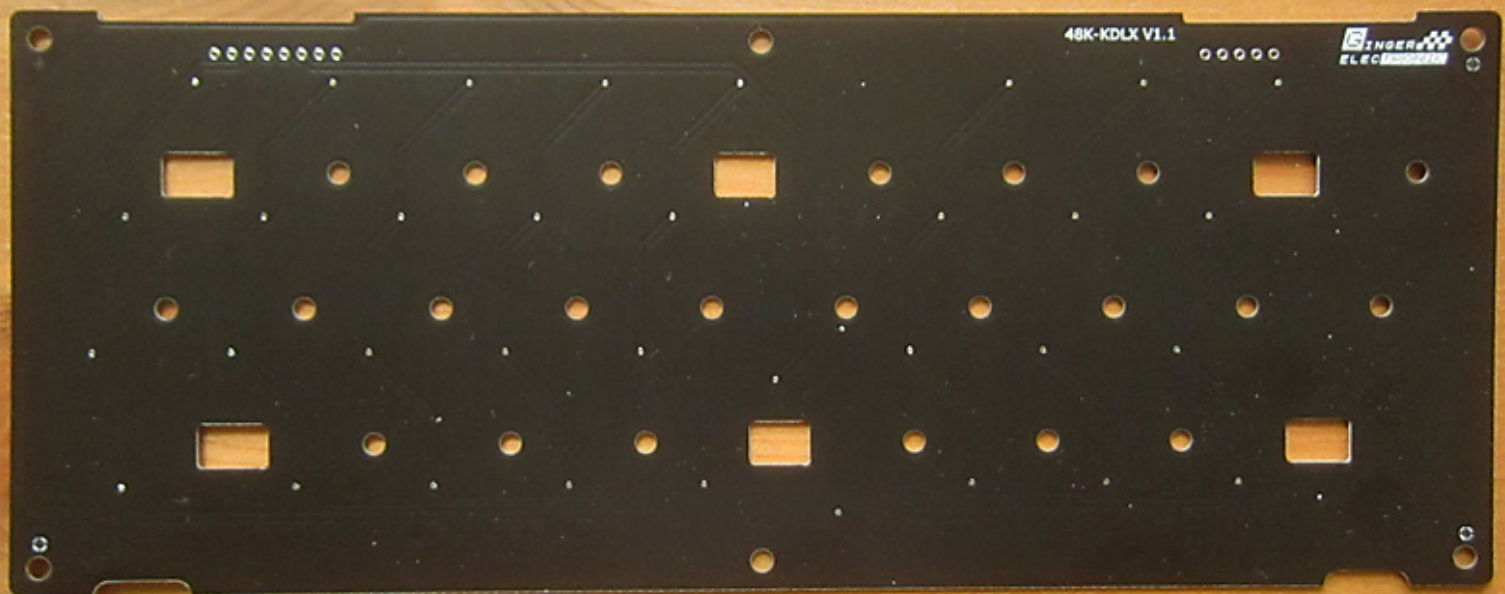
The new board looks and feels very good and is from higher quality and much thinner (0.8mm instead of 1.2mm). But it is same stable like the previous version due to much more copper areas on both sides (now double sided pcb, was single sided before) and this gives a brighter "black" look. The rubber mat version is now used with the same low force tactile switches from ALPS (SKQG series) and is no difference to a keyboard membrane, I would say. Same responsiveness and the case closes better due to lower height.

Now available at

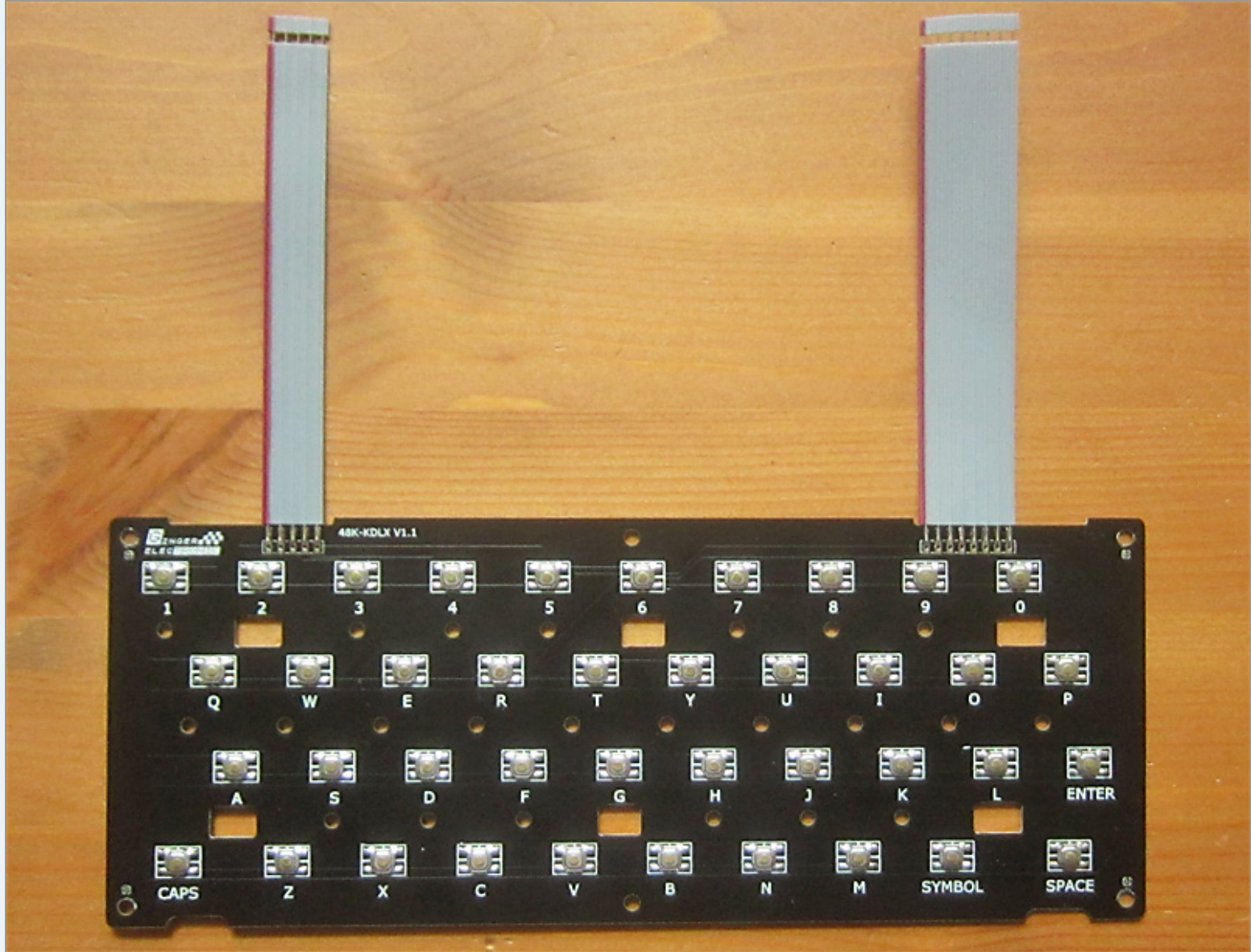
<http://www.sellmyretro.com/user/profile/PokeMon/>



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IMG_8856k.JPG (119.35 KiB) Viewed 5313 times



IMG_8860k.JPG (199.44 KiB) Viewed 5313 times

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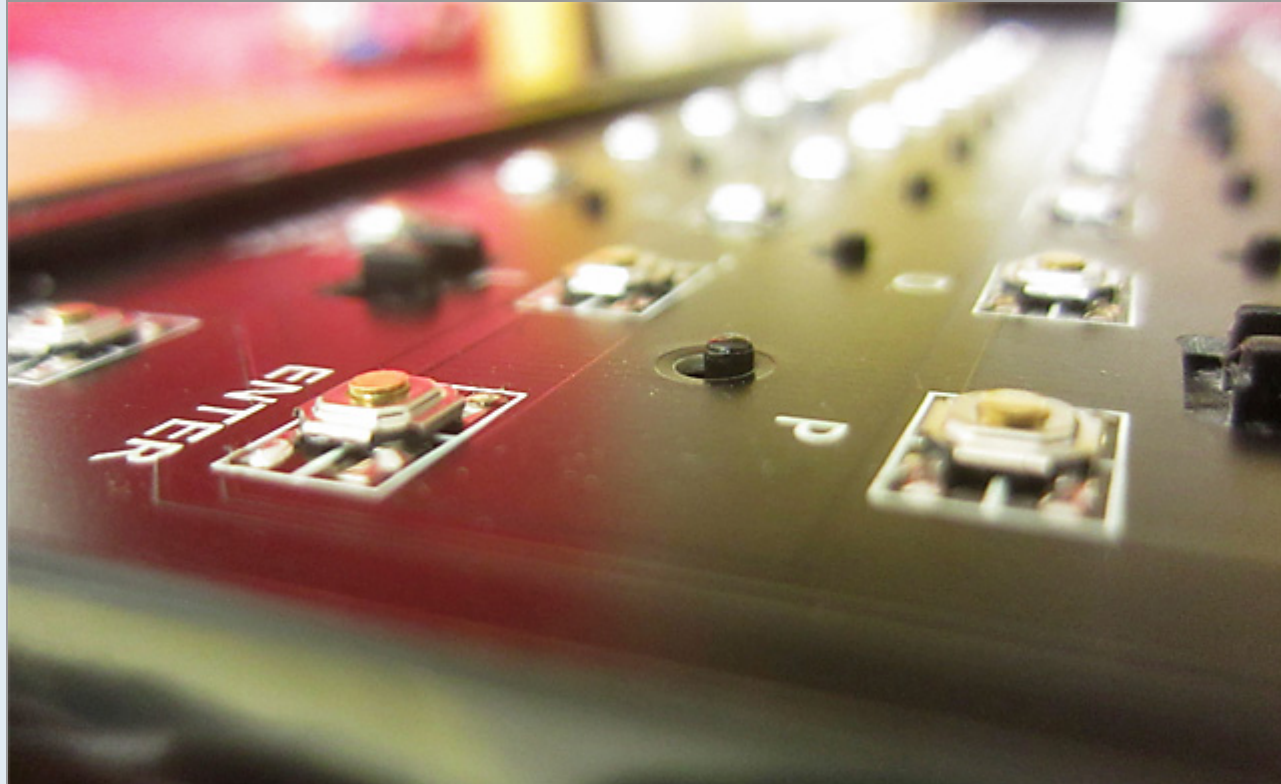


PokeMon



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Sun Sep 27, 2015 4:24 pm



IMG_8865k.JPG (91 KiB) Viewed 5313 times



IMG_8863kk.JPG (148.18 KiB) Viewed 5313 times

sirmorris



Re: 48K-KDLX - ZX Spectrum 48k keyboard w. smd tactile switc

Sun Sep 27, 2015 11:19 pm

Very nice work indeed, Karl.

