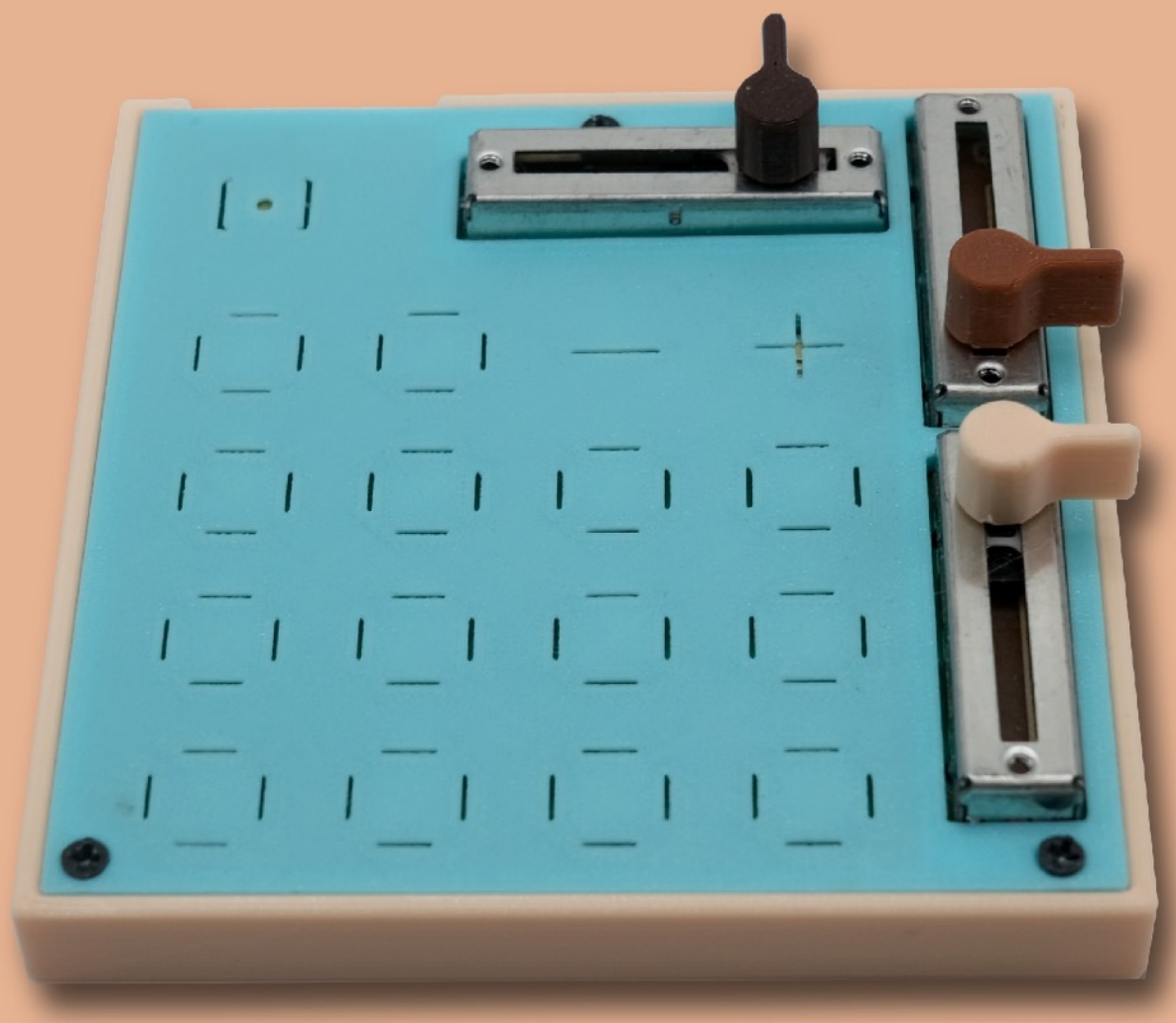
DJBB

MINI MIDI SLIDER 51

User Manual

Last Updated: 7/16/2024



The MMS51 is a portable USB MIDI control surface featuring up to 51 mappable sliders.

Features:

- 16 x Drum Pads w/ RGB LEDs (membrane style keys)
- Control up to 51 parameters with sliders (3 global, 48 pad-specific - 3 per)
- CC Mode - Latch buttons to send pad-specific CC messages with sliders
- Can latch multiple to send CC messages for each
- Very small - great for travel

Resources

Videos: https://www.youtube.com/watch?v=U5nADOcyAg4

https://www.youtube.com/watch?v=O2LY8Df0sLk

Github: https://github.com/derrickthomin/micro_midi_slider_pico

STL Files: https://www.printables.com/model/945561-djbb-mini-midi-slider-51-case

User Manual

See next page for reference diagram / one pager

Note Mode

- Send Note = press PAD button
- Send global CC messages = move SLIDERS
- Send pad-specific CC messages = hold PAD and move SLIDERS
    - Pad light turns blue to indicate that CC messages will send for that pad by moving sliders
- Change MIDI Bank = Hold FN button and press -/+ keys (top right two pads).

CC Mode

- Enter / Exit CC mode = double click FN button
- Latch / Unlatch buttons to send CC messages for = Click PAD buttons
- Send global CC messages = move sliders when NO pad is latched.
- Send pad-specific CC messages = move sliders while PAD buttons are latched (blue light above)
- Each slider sends a different CC message per pad latched. If 4 pads are latched and slider 1 is moved, 4 CC messages are sent at once.

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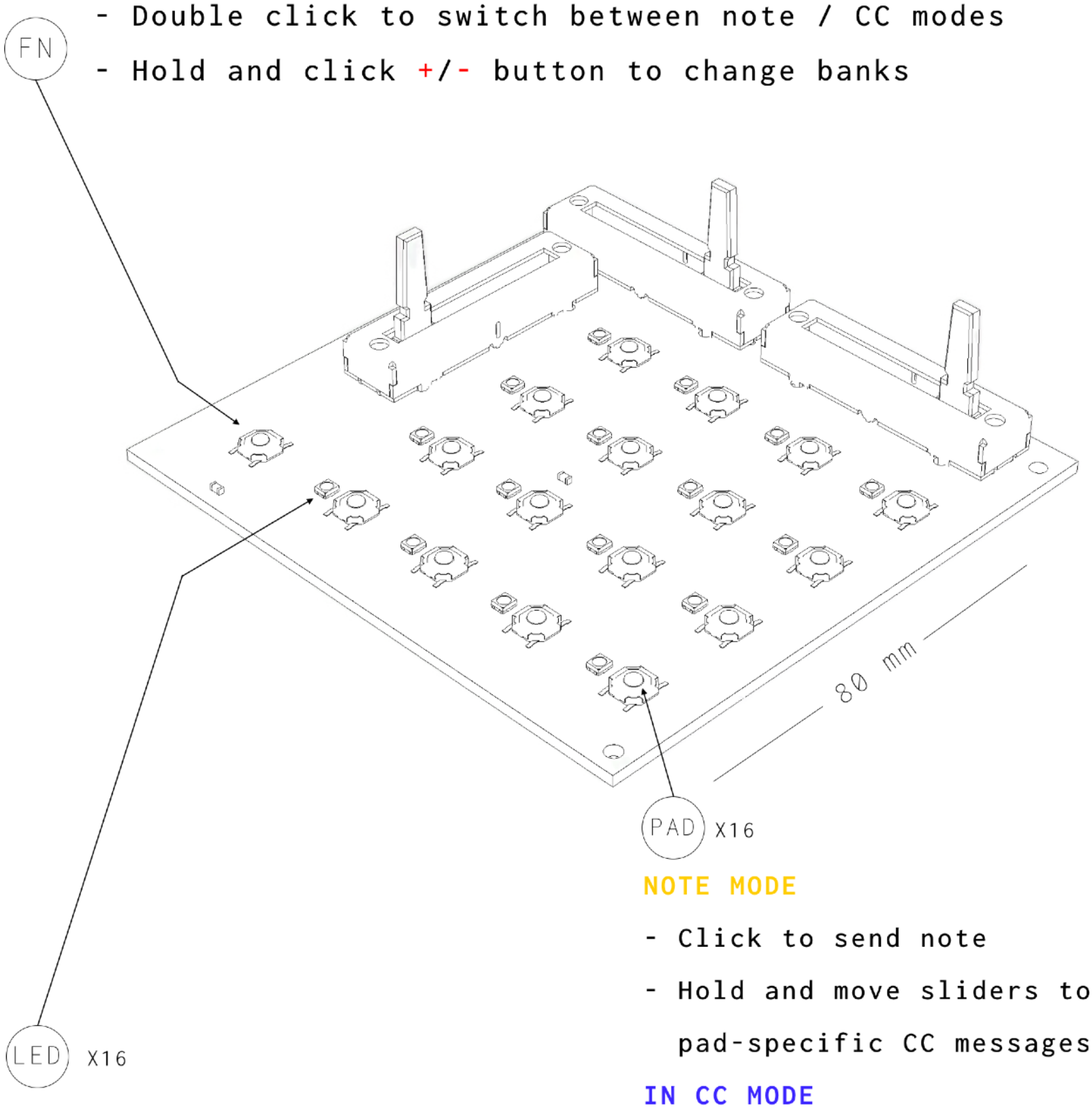
- Double click to switch between note / CC modes
- Hold and click +/- button to change banks



Yellow = Sending Note

Blue = Send pad-specific CC message for this pad when sliders are moved

NOTE MODE

- Click to send note
- Hold and move sliders to send pad-specific CC messages

IN CC MODE

- Click button to latch / unlatch
- Move sliders to send pad-specific CC messages for each latched button

Technical

To modify the code, plug it into your computer and locate it in Finder / Explorer. The root folder contains all of the code. code.py is what runs when the device is plugged in - start there to see how it works

CC Messages

Global Sliders = 3, 9, 85

Slider-Specific = [[10, 11, 12], [13, 14, 15], [16, 17, 18], [19, 20, 21],

[22, 23, 24], [25, 26, 27], [28, 29, 30], [31, 32, 33],

[34, 35, 36], [37, 38, 39], [40, 41, 42], [43, 44, 45],

[46, 47, 48], [49, 50, 51], [52, 53, 54], [55, 56, 57]]

Troubleshooting

If it lights up but your computer cannot detect it, ensure your micro usb cable is not power-only.

FAQ

Q: Membrane style keys… why??

A:The tiny buttons are hard to press without some sort of keys on top. I also wanted to diffuse the LED light so it wasn't so harsh. PETG membrane keyboard was the only thing that I could come up with that I could produce myself.

Q: Is the 3D printed keypad really going to hold up?

A: Yes - it's made from PETG which is flexible, durable, and heat resistant (up to 85C / 185F before risk of warping)