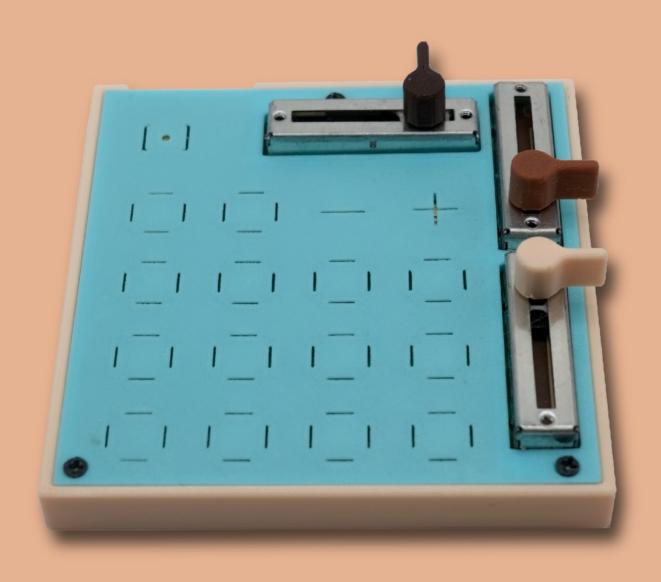
MINI MIDI SLIDER 51

User Manual

Last Updated: 8/16/2024



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 padspecific CC messages with sliders

- Can latch multiple to send CC messages for each
- Small great for travel

Resources



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

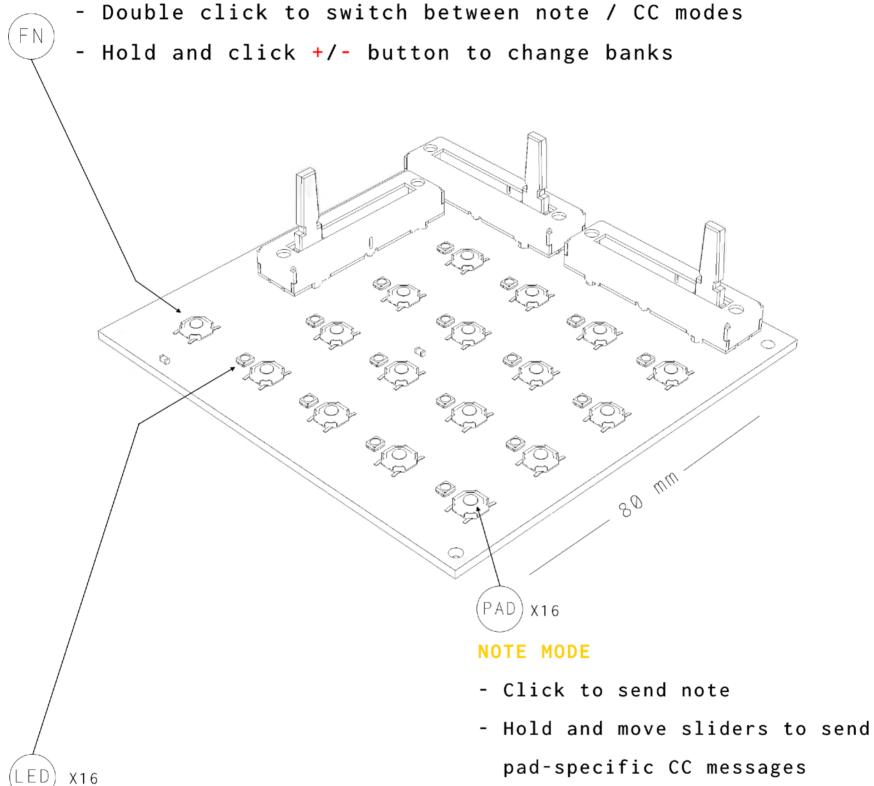
Note Mode

- 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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Yellow = Sending Note

= Send pad-specific Blue CC message for this pad CC messages when sliders are moved for each latched button

IN CC MODE

- Click button to latch / unlatch
- Move sliders to send pad-specific

Technical

Default 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]]
```

Customizing CC Messages

You can customize which messages are sent by editing **cc_vals.json** in the root directory of the device. Plug it in, locate it in Finder / Explorer, and open cc_vals.json in any text editor. The default settings are shown below.

SLIDER_CC_VALS_GLOBAL Determines CC when no button is held

SLIDER_CC_VALS_HELD Determines CC for each button when held / latched.

```
{
    "SLIDER_CC_VALS_GLOBAL":[3, 9, 85],
    "SLIDER_CC_VALS_HELD": [
        [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]
    ]
}
```

Unplug and re-plug the device in to see the changes.

WARNING: No validation is done on the values entered here. They must be valid CC values, and the format must stay exactly the same (don't delete any values completely, remove commas, etc. If you mess it up, just copy and paste the above back into cc_vals.json and restart the device.

Code

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! It's programmed in CircuitPython which you can find many guides for online - it's a very beginner friendly programming language.

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)