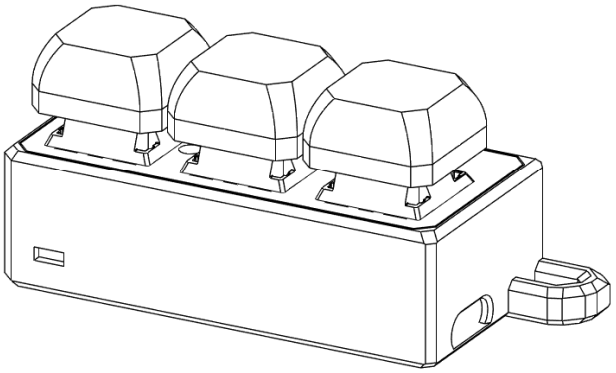
Mini Numpad

Github



Handwired, wireless 3-key mini numpad built with a Nice!Nano clone and ZMK firmware

Features
Wireless: Bluetooth support via ZMK.
Customizable: via ZMK Studio, at zmk.studio
Three pre-made firmwares: Media, Hotkeys, E-reader Page Turner.
Easy to make: 3D printed case, with handwiring instructions.

Bill of Materials

Item	Description	Link
Controller	NRF52840 Development Board (Nice!Nano clone) (x1)	AliExpress
Switch	SS12D00 Slide Switch (x1)	AliExpress
Battery	801350 3.7V Li-Po Battery (x1)	AliExpress
Screws	BT2x8 Self-tapping Screws (x1)	Bambu Store
Switches	Mechanical Switches (x3)	-

Firmware

Flashing Instructions
Connect the board to your PC via USB.
Enter Bootloader: Short the GND and RST pins twice in quick succession (e.g., using tweezers).
Drag & Drop: The board will appear as a drive (e.g., NICENANO). Drag and drop your chosen .uf2 file onto the drive.

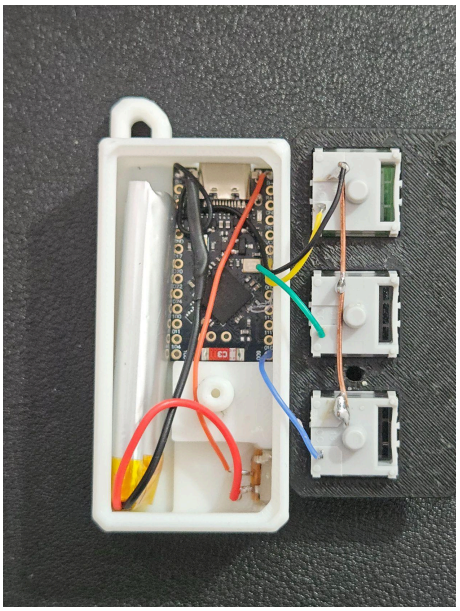
Premade Configurations

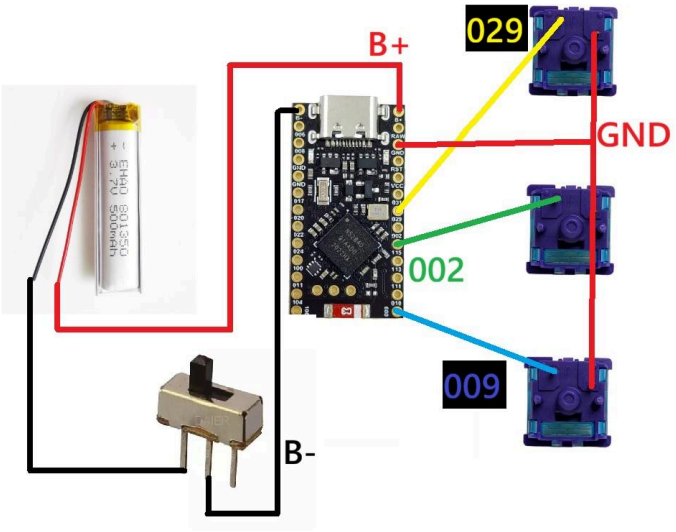
Media Controls: Previous, Play/Pause, Next.

E-ink Page Turner: Volume Up, Play/Pause, Volume Down.
Hotkeys: Copy, Paste, Delete.

Assembly Instructions

1. **Print the Files**: Download and print the plate and casing from Makerworld.
2. **Insert Switches**: Snap your switches into the printed plate.
3. **Wiring**: Follow the wiring diagram below to connect the switches, battery, slide switch and controller.
4. **Flash Firmware**: Flash the desired **.uf2** file to the controller (Firmware section).
5. **Final Assembly**:
    - Place the components into the case.
    - Use a small amount of hot glue to secure the controller and slide switch in place.
    - Screw the plate onto the case using the BT2x8 screw.
6. **Keycaps**: Add your favorite keycaps to finish the build.





Customization & Forking

If you want to alter the firmware for a different controller or a different pinout, feel free to fork the original ZMK config repository:

[ZMK Config Repository]