

Base Layer When not holding anything

Tab	Q	W	E	R	T	Y	U	I	O	P	⌫
Esc	A	S	D	F	G	H	J	K	L	;	'
Shift	Z	X	C	V	B	N	M	<	>	?/	Enter
Ctrl	Caps	Win/ Cmd	Alt	Lower	Space	Raise	←	↓	↑	→	

Lower Layer When holding [Lower]

~	!	@	#	\$	%	^	&	*	()	⌫
⌫	F1	F2	F3	F4	F5	F6	_	+	{	}	
Shift	F7	F8	F9	F10	F11	F12	M	<	Home	End	Enter
Ctrl	Caps	Win/ Cmd	Alt	Lower	Space	Raise	⏪	⏩	🔊	🔊	⏮

Raise Layer When holding [Raise]

~	1	2	3	4	5	6	7	8	9	0	⌫
⌫	F1	F2	F3	F4	F5	F6	-	=	[]	\
Shift	F7	F8	F9	F10	F11	F12	M	<	Home	End	Enter
Ctrl	Caps	Win/ Cmd	Alt	Lower	Space	Raise	⏪	⏩	🔊	🔊	⏮

Adjust Layer When holding both [Lower] and [Raise]

BT 1	Q	W	E	R	T	Y	U	I	O	P	Flash
BT 2	A	S	D	F	G	H	J	K	L	;	'
BT 3	Z	X	C	V	B	N	M	<	>	?/	Enter
BT Clear	Caps	Win/ Cmd	Alt	Lower	Space	Raise	←	↓	↑	→	

Bluetooth

There are 3 profiles for remembering paired devices. Switch profiles with [BT 1-3]. Use [BT Clear] to clear the current profile and put the keyboard in pairing mode. If you run into issues reconnecting to a saved device, try having the other device forget the keyboard as well.

Battery Switch

The switch at the back of the keyboard makes or breaks the physical connection to the battery. To use the keyboard wirelessly, ensure the battery switch is "On." The keyboard will always function while connected via USB, but the battery will only charge if the battery switch remains "On" while plugged in.

Flashing Firmware

Connect the keyboard via USB. Press [Flash] or double-press the "Reset" button on the bottom of the board, to put the keyboard into flashing mode. The keyboard will now act like a USB storage device named "NICENANO" - copy the new firmware file (.u2f) onto the device via your file explorer, then wait for it to reset.

Customize Keymap

Connect the keyboard via USB. Use a Chromium-based browser to open:

<https://zmk.studio>

Allow the site to connect to your board. Under "Layouts" in the top left, make sure the correct physical layout for your board is selected in the top left. Make edits to your keymap, then save back to the board with the button in the top right.

More Info

This keyboard is open-source! You can find more info and resources, including a link to redownload the stock firmware, at:

<https://48ish.umbreon.online>

ZMK firmware repo:

<https://github.com/ewwwin/zmk-keyboard-48ish>

ZMK customization docs:

<https://zmk.dev/docs/customization>

Contact

If you're reading this, you already have at least one way to get in touch with me - let me know if you need any help getting things set up the way you like. I just like it when people use silly little keyboards :)