

Motor Fader Pin Assignment

Project: 10 Motor Faders with NeoPixel and Touch Interrupt Integration
Target Board: Teensy 4.1

Fader #	Analog Input (Position Sensor)	PWM Output (Motor Speed)	Direction Pin 1 (H-Bridge)	Direction Pin 2 (H-Bridge)
Fader 0	14	0	26	27
Fader 1	15	1	28	29
Fader 2	16	2	30	31
Fader 3	17	3	32	33
Fader 4	20	4	34	35
Fader 5	21	5	36	37
Fader 6	22	6	38	39
Fader 7	23	7	40	41
Fader 8	24	8	10	11
Fader 9	25	9	51 (back of board)	52 (back of board)

Additional Components

Component	Pin Number	Function
NeoPixel	12	LED Strip Data
Touch Interrupt	13	Interrupt Pin



Notes

- Analog Pins:** Read fader position from wiper of potentiometer/sensor
- PWM Pins:** Control motor speed through motor driver boards
- Direction Pins:** Control motor direction via H-bridge configuration
- Total Pins Used:** 42 pins (40 for faders + 2 for additional components)
- Each Fader Uses:** 4 pins (1 analog + 1 PWM + 2 direction)