

Commands and Keybindings

Serial Commands

Key	Command sent	Description
1	speed <erpm>	Sets motor speed to current erpm value
2	stop	Sends stop command
3	profile <erpm> <max_accel> <time_ms>	Sends full motion profile
b	(PIO subprocess)	Runs pio run -t <target> -e <env> in background
q	(none)	Quits the TUI and closes the serial port

Parameter Edit Keys

Key	Field	Validation
e	erpm	Must be integer (negative allowed)
a	accel	Must be integer (negative allowed)
t	time_ms	Must be integer (negative allowed)
p	pio target	Any non-empty string
n	pio env	Any non-empty string

Edit Mode Behaviour

Pressing an edit key switches the status bar to an edit prompt and opens an inline text field on the parameter row. **Enter** confirms; **ESC** restores the previous value. Invalid integer inputs are rejected and logged to the TX log with a  prefix — the parameter retains its prior value.

PIO Build

Pressing `b` spawns a background thread running:

```
pio run -t <pio_target> -e <pio_env>
```

Output streams line-by-line into the INCOMING panel. `[INFO] PIO: done (exit 0)` appears on success. `[ERROR] PIO: 'pio' not found in PATH` appears if PlatformIO is not installed.

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