

Layout

```

STM32 SERIAL COMMANDER                               /dev/ttyACM0  · 115200 baud |
|-----|-----|
| COMMANDS                                           | MOTOR |
|                                                    | erpm  2000  [e] |
| [1] speed                                           | accel 1000  [a] |
| [2] stop                                           | time ms 5000  [t] |
| [3] profile                                         |          |
|                                                    | PIO  |
| [b] pio build                                       | target upload    [p] |
|                                                    | env   can_board  [n] |
| [q] quit                                           |          |
|-----|-----|
| TX                                                  | INCOMING |
| ▶ connected /dev/ttyACM0                           | [INFO] system ready |
| ▶ speed 2000                                        | [INFO] CAN init ok  |
| ▶ profile 2000 1000 5000                          | [WARNING] temp high |
|-----|-----|
| 1 speed  2 stop  3 profile  b pio build  e/a/t/p/n edit  q quit |

```

Top-left — COMMANDS: Available key bindings. [q] is visually separated from the command group.

Top-right — MOTOR / PIO: Editable parameters with current values. Each shows its edit key in brackets. Values highlight in yellow when active.

Bottom-left — TX: Scrolling log of sent commands, prefixed with `▶`. Most recent entries appear at the bottom.

Bottom-right — INCOMING: Scrolling serial output, colour-coded by severity:

Prefix	Colour
<code>[ERROR]</code>	Red
<code>[WARNING]</code> / <code>[WARN]</code>	Yellow
<code>[INFO]</code>	Cyan
<i>(other)</i>	White

Status bar: Shows edit mode prompt when a field is being edited; otherwise shows the full key reference.

Terminal Requirements

Minimum ~80×24 terminal. Colour support recommended — falls back to `curses.COLOR_MAGENTA` if the terminal cannot redefine colours (the TUI uses a custom purple `#5a2273`).