

Usage

Dependencies

```
pip install pyserial
```

PlatformIO (`pio`) must be in `PATH` for build/flash functionality.

Running

Auto-detect STM32 device (VID `0x0483`):

```
python3 serial_commander.py
```

Specify port and baud rate manually:

```
python3 serial_commander.py --port /dev/ttyACM0 --baud 115200
```

If multiple STM32 devices are connected, the script presents a numbered selection menu before opening the TUI.

Default Parameter Values

Parameter	Default
erpm	2000
accel	1000
time_ms	5000
pio target	upload
pio env	can_board

Typical Workflow

1. Connect STM32 CAN board via USB.

2. Run `python3 serial_commander.py` — port is detected automatically.
 3. Adjust `erpm`, `accel`, `time_ms` with `e/a/t` as needed.
 4. Send `speed` (1) or `profile` (3) and observe STM32 response in INCOMING.
 5. Use `b` to build/flash directly if firmware changes are needed.
 6. Press `q` to quit — serial port closes cleanly.
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