# Structure of EMS-driver

EMS bus

9600 8N1
Half duplex

| Level shifter | |
|---|---|
| Raspberry Pi 0W, UART | h/w |
| Raspbian serial driver | |
| PySerial | s/w |

Full duplex

**Thread reader**

Assemble frame
Verify / remove checksum
Echo cancelation

**Thread writer**

Append checksum

**Thread ingress dispatcher**

Classify frame
Half duplex sync

**Thread egress dispatcher**

Buffer frames
Half duplex sync

EMSbus.py

**User application**

Data flow

Control flow