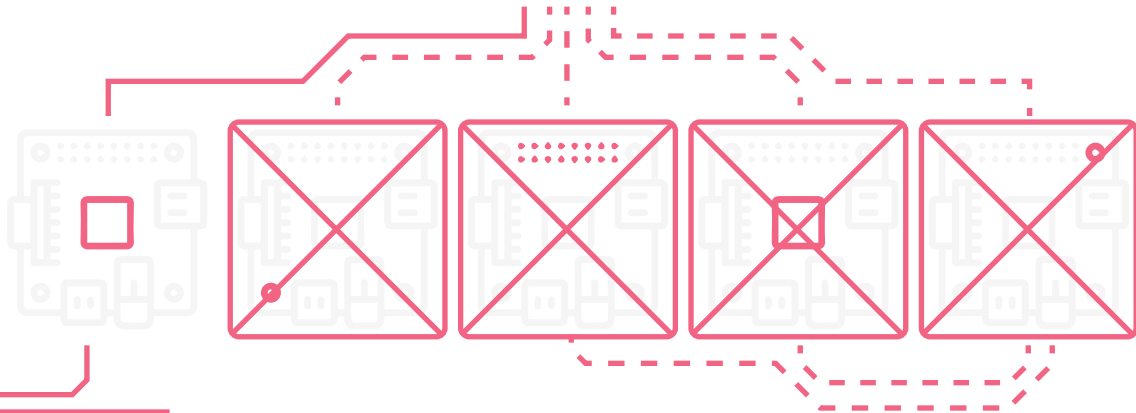compile state
machine

I/O module

control hardware with additional modules