Protocol Ideas

9th August 2007

Minimal protocol

Here is a minimal approach

From Switch Interface

```
<chn><state>
1 byte:
[ 4bits chan][1 bit state]
```

Advantages:

- No configuration of switch type at the interface.
- WebBrick configuration consistent over both physical and interface implemented schemes.
- Easy to integrated into firmware

Disadvantages:

• May need fast baud rate to support rotary encoders

From WebBrick

For setting Mimic level, two bytes:

Address ChnLevel

For setting fade rate:

F [*|chn] Rate

(what do we specify fade rate as? Steps per mS?)

Addressing

Requirements

Switch interfaces may have the same address. This is to handle rooms where there are multiple

points of entry or control.

We **could** avoid range by having each further switch use the next sequential address up. For example a 3 button switch starting at address '4' would create:

- 1. 4+state
- 2. 5+state
- 3. 6+state

Mechanism

DIL switch