

FHEM with CUL

FHEM is a cool software utility with a web-based GUI that is used in conjunction with different hardware devices to control amongst others FS20 and HomeMatic devices.

CUL is a little USB stick that runs an opensource firmware. It can be used to control the above devices through the air.

First time Use - Flash the Firmware

- download the latest version of [culfw](#) and unpack it

```
cd culfw/Devices/CUL
```

```
apt-get install dfu-programmer
```

```
make usbprogram_v3
```

(depends on your hardware version which is visible on the stick)

- after flashing the green led should blink

Using it with FHEM

- start fhem
- run the command

```
define CUL1 CUL /dev/ttyACM0@9600 1234
```

in fhem

- to pair an actor, define a new actor in fhem

```
define myActor FS20 12341234 0012
```

set the actor to the learning mode (by long-pressing the button) and send a on/off command through the webinterface to this actor.

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