

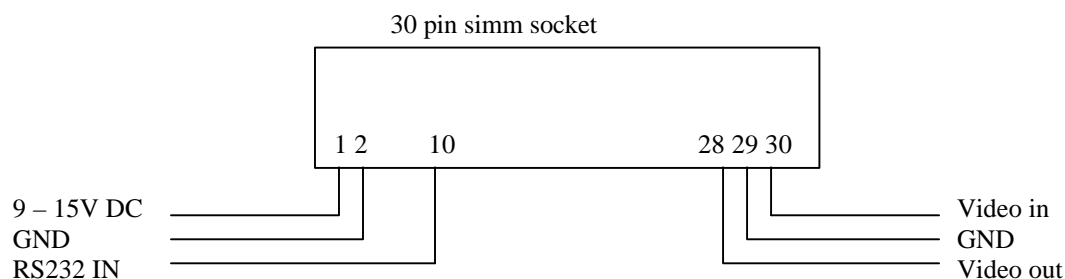
The OSD-Stick is a simple module in the famous simmstick format, which generates text screens on a TV. It's nice for remote control functions, home automation, video surveillance etc. Usually such kind of module was mostly powered by the STV5730 from ST, but this part is obsolete now. Our module works with the OSD controller  $\mu$ PD6450 from NEC. You can use this module with a microcontroller or directly connected with a PC to generate the text strings on the screen.

Pin description table:

| Pin | Description                          |
|-----|--------------------------------------|
| 1   | 9 to 15 VDC power supply             |
| 2   | Ground                               |
| 8   | TxD, transmit data output, 5V logic  |
| 9   | RxD, receive data input, 5V logic    |
| 10  | RxD, receive data input, RS232 logic |
| 15  | external Reset input                 |
| 28  | Composite video output               |
| 29  | Ground                               |
| 30  | Composite video input                |

The pins are compatible with the BOB2 and BOB3 Modules from Decade Engineering.

Please use the basic-hookup for the first experiments:



You can control the OSD-Stick with simple text commands starting with a #. The following commands can be used:

```
#c      clears screen

#b1     blinking of characters ON
#b0     blinking of characters OFF

#m0     overlay mode, white text is transparent
#m1     overlay mode, white text with black background
#m2     OSD off
#m3     solid mode, white text with colored background

#gxyy   goto x y position on the screen (for example #g0410)

#sx     set screen color (x=0 black, x=1 blue, x=2 green, x=4 red, x=7 white)
```

If you transmit the following chars 0-9,A-Z,a-z,.,:,<> without a #, these chars are shown on the screen.

Simply use the terminal from bascom for communication with the module. The Com setting is 9600,8,n,1.