PI2GENESIS-USB-HUB Installation

Preparation:

Desolder the 4 USB sockets from the board inside the GENESIS-HUB and install them onto the PCB.

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- Align the PI to the PCB as shown in the picture.
- Optional: use 2x M3.5 screws to mount the PCBs together.
- Solder the PCB to the 40 GPIO pins. 3.
- Install a DC/Power-Socket to the housing. 4.
- Install an appropriate AV connector to the housing, such as a miniDIN, DSub-9(VGA) or whatever suits your needs.
- Connect the positive line from the DC-socket to "5V IN" on the PCB. Connect the negative line to a GND pad on the PCB.
- Connect the "5V OUT" pad to PP1 or PP2 on the PI. Connect the unused GND pad to PP5 on the PI.
- Connect the "5V-USB" pad on the PCB to PP27 on the PI.
 - Connect 1D+ on the PCB to PP43 on the Pl.
 - Connect 1D- on the PCB to PP42 on the PI.
 - Connect 2D+ on the PCB to PP41 on the Pl.
 - Connect 2D- on the PCB to PP36 on the Pl.

 - Connect 3D+ on the PCB to PP47 on the PI.
 - Connect 3D- on the PCB to PP46 on the Pl.
 - Connect 4D+ on the PCB to PP45 on the PI.
 - Connect 4D- on the PCB to PP44 on the Pl.
 - Don't use the original USB-sockets any more, desolder them if you like.
- Connect Audio through pads "SND-L" and "SND-R" on the PCB to PP25 (left) and PP26 (right) on the Pl. If you have bad audio like humming,
 - use an isolation transformer or groundloop-breaker circuit.
- Connect the VIDEO signals from the PCB to your AV-socket. Use SHIELDED cables!!! and connect the shielding to GND! Always connect GNDs to all GND-pins.
- When using your PI, be aware you need a special config file for correct video (15KHz/RGB) output!

