

## Configuration for SATA Interface

Out of the box the SATA interface of the Banana Pi does not supply enough power to a HDD/SSD SATA drive. This can be fixed by appropriately altering the Pi's power supply configuration during the boot sequence, as described in following tutorial.

1. Copy and backup boot configuration

```
# Mount boot partition e.g. to /mnt
mount /dev/mmcblk0p1 /mnt

# Copy script.bin (always keep a copy of the original file)
cp /mnt/script.bin /root/script.bin.backup

# Make fex out of script.bin
bin2fex /root/script.bin.backup /root/script.fex

# Edit fex-file with your favourite text editor
vi /root/script.fex
```

2. In the fex-file search for "sata", look for:

```
[sata_para]
sata_used = 1
sata_power_en =
```

3. Change it to:

```
[sata_para]
sata_used = 1
sata_power_en = port:PB03<1><default><default><0>
```

4. Save and reboot:

```
# Convert fex-file to binary
fex2bin /root/script.fex /root/script.bin

# Copy to boot partition
cp /root/script.bin /mnt/script.bin

# On next boot sata-power works!
reboot
```

Original source, retrieved in 2015, link seems broken as of 2016:

<http://bananapi.com/index.php/forum/general/391-why-the-sata-disk-doesnt-work-on-bpi-r1?start=12>