

Zyxel NSA310

Technical info

Fan: 12V / 4200RPM / 4,11CFM / 0,06A / 3pin (one pin for RPM feedback)

5 two color LEDs:

1. SATA1
2. SATA2
3. System
4. USB
5. Copy

3 Buttons:

1. POWER (on front)
2. COPY (on front)
3. OPTION (on the back)

Original system

NAND Flash

```
NAND device: Manufacturer ID: 0xec, Chip ID: 0xf1 (Samsung NAND 128MiB 3,3V
8-bit), page size: 2048, OOB size: 64
Scanning device for bad blocks
Creating 9 MTD partitions on "orion_nand":
0x00000000000000-0x00000001000000 : "uboot"
0x00000001000000-0x00000001800000 : "uboot_env"
0x00000001800000-0x00000002000000 : "key_store"
0x00000002000000-0x00000002800000 : "info"
0x00000002800000-0x0000000c800000 : "etc"
0x0000000c800000-0x00000016800000 : "kernel_1"
0x00000016800000-0x00000046400000 : "rootfs1"
0x00000046400000-0x00000050400000 : "kernel_2"
0x00000050400000-0x00000080000000 : "rootfs2"
```

```
# cat /proc/partitions
major minor #blocks name

7          0    126976 loop0
8          0  976762584 sda
8          1    514048 sda1
```

```

 8      2  976245952 sda2
31      0      1024 mtddbblock0
31      1      512 mtddbblock1
31      2      512 mtddbblock2
31      3      512 mtddbblock3
31      4     10240 mtddbblock4
31      5     10240 mtddbblock5
31      6     48896 mtddbblock6
31      7     10240 mtddbblock7
31      8     48896 mtddbblock8
 9      0  976245888 md0

```

HDD layout on original NSA310 firmware

Partitions:

1. /dev/sdd1 502MB type 0x8 (Ext2)

```

drwxr-xr-x 2 root root      12288 Oct  5 11:15 lost+found
-rwxrwxrwx 1 root root 370147328 Oct  5 11:16 swap_ul6545p
-rw-r--r-- 1 root root 130023424 Oct  5 11:15 sysdisk.img

```

1. /dev/sdd2 931GB type 0x20 (Linux RAID Member v 0.90.0)
2. /dev/md0 (contains Ext4 v 1.0)

```

drwxrwxrwx 4 root root      4096 Jul 29 2013 admin
-rw----- 1 root root      9216 Mar 23 22:06 aquota.user
drwxr-xr-x 11 501 root      4096 Apr 17 2013 backup
-rw-r--r-- 1 root root 4190869 Mar 15 2014 dump
drwxrwsrwx 2 root root     16384 Sep 14 2012 lost+found
drwxrwxrwx 2 root root      4096 Sep 14 2012 music
drwxrwxrwx 2 root root      4096 Sep 14 2012 photo
drwxrwxrwx 11 root root      4096 Oct  5 12:25 public
drwxrwsrwx 2 501 root      4096 Sep 29 20:37 tftpd
drwxrwxrwx 2 root root      4096 Sep 14 2012 video

```

```

#mdadm --examine --scan
ARRAY /dev/md0 UUID=841eae0f:97895553:d4cced71:a5fa1a38

```

```

# mount
/dev/md0 on /i-data/841eae0f type ext4
(rw,noatime,barrier=0,data=writeback,usrquota)

```

```

# cat /proc/mdstat
Personalities : [linear] [raid0] [raid1]
md0 : active linear sda2[0]
      976245888 blocks 64k rounding

```

```

unused devices: <none>

```

```
mdadm --detail /dev/md0
/dev/md0:
    Version : 0.90
  Creation Time : Fri Sep 14 12:29:24 2012
    Raid Level : linear
    Array Size : 976245888 (931.02 GiB 999.68 GB)
  Raid Devices : 1
  Total Devices : 1
Preferred Minor : 0
    Persistence : Superblock is persistent

    Update Time : Fri Sep 14 12:29:24 2012
      State : clean
  Active Devices : 1
Working Devices : 1
  Failed Devices : 0
   Spare Devices : 0


    Rounding : 64K


    UUID : 841eae0f:97895553:d4cced71:a5fa1a38
    Events : 0.1


   Number   Major   Minor   RaidDevice State
    0         8       50         0     active sync   /dev/sdd2
```

From:

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