



?? <http://digiland.tw/viewtopic.php?id=1942&p=1> hippo ? ?????????? ??????????????????

GPIO?????????General Purpose I/O),????8051?P0—P3????????????????????PIN????????????????GPI??????
?GPO?????????GPIO????clk generator, chip select??

???Soc ???GPIO ?? ,Maravell Orion soc ? 26 ??? ,?????????,?? ??????.??????????????????.

???? GPIO?? ?????? ?????? ????????, LED ,???

?????????????embedded system ,????????nh233-setup.c ????

????GPIO ??? ??Soc ???Open Sources Program guide.

[88F5182-based Storage Networking Platforms Open Source Community Programmer's User Guide](#)

?384??? ??MPP???. ?U-Boot??

```
>> md f1010000
f1010000: 00000003 55550000 03ff0000 00000000 .....UU.....
f1010010: 00638636 00000000 00000000 00000000 6.c.....
f1010020: ff000000 00000000 00000000 00000000 .....
f1010030: 00b80000 00000000 00000000 00000000 .....
f1010040: 00000f08 00001020 00000000 00000000 ....
f1010050: 00000000 00000000 00000000 00000000 .....
```

??arch/arm/mach-orion5x/mpp.h

```
0xf1010000=0x03
3: MPPSel0=MPP0_UNUSED?MPP0_GPIO
0: MPPSel1=MPP1_UNUSED?MPP1_GPIO
...
0xf1010006=0x55
5: MPPSel12=MPP12_SATA_LED
5: MPPSel13=MPP13_SATA_LED
...
0xf1010050=0x00
0: MPPSel16=MPP16_UNUSED?MPP16_UART
0: MPPSel17=MPP17_UNUSED?MPP17_UART
```

????arch/arm/mach-orion5x/nh233-setup.c

```
static unsigned int nh233_mpp_modes[] __initdata = {
MPP0_GPIO,
MPP1_GPIO,
...
MPP12_SATA_LED,
```

...
MPP16_UART,
...

MTD???, ???????/proc/mtd???

Creating 5 MTD partitions on "phys_mapped_flash":

0x00000000-0x00200000 : "Kernel"
0x00200000-0x00770000 : "File-System"
0x00770000-0x00780000 : "System-config"
0x00780000-0x00790000 : "bootloader-config"
0x00790000-0x00800000 : "Boot-loader"

\$ cat /proc/mtd

dev: size erasesize name
mtd0: 00200000 00010000 "Kernel"
mtd1: 00570000 00010000 "File-System"
mtd2: 00010000 00010000 "System-config"
mtd3: 00010000 00010000 "bootloader-config"
mtd4: 00070000 00010000 "Boot-loader"

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1. [88F5182-based Storage Networking Platforms Open Source Community Programmer's User Guide](#)
2. [88F5182 Feroceon Storage Networking SoC User Manual](#)
3. [88F5182 Feroceon Storage Networking SoC Datasheet](#)
4. http://www.nas-central.org/wiki/Orion_NAS_customisation_guide