



?? <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](http://www.nas-central.org/wiki/Orion_NAS_customisation_guide)