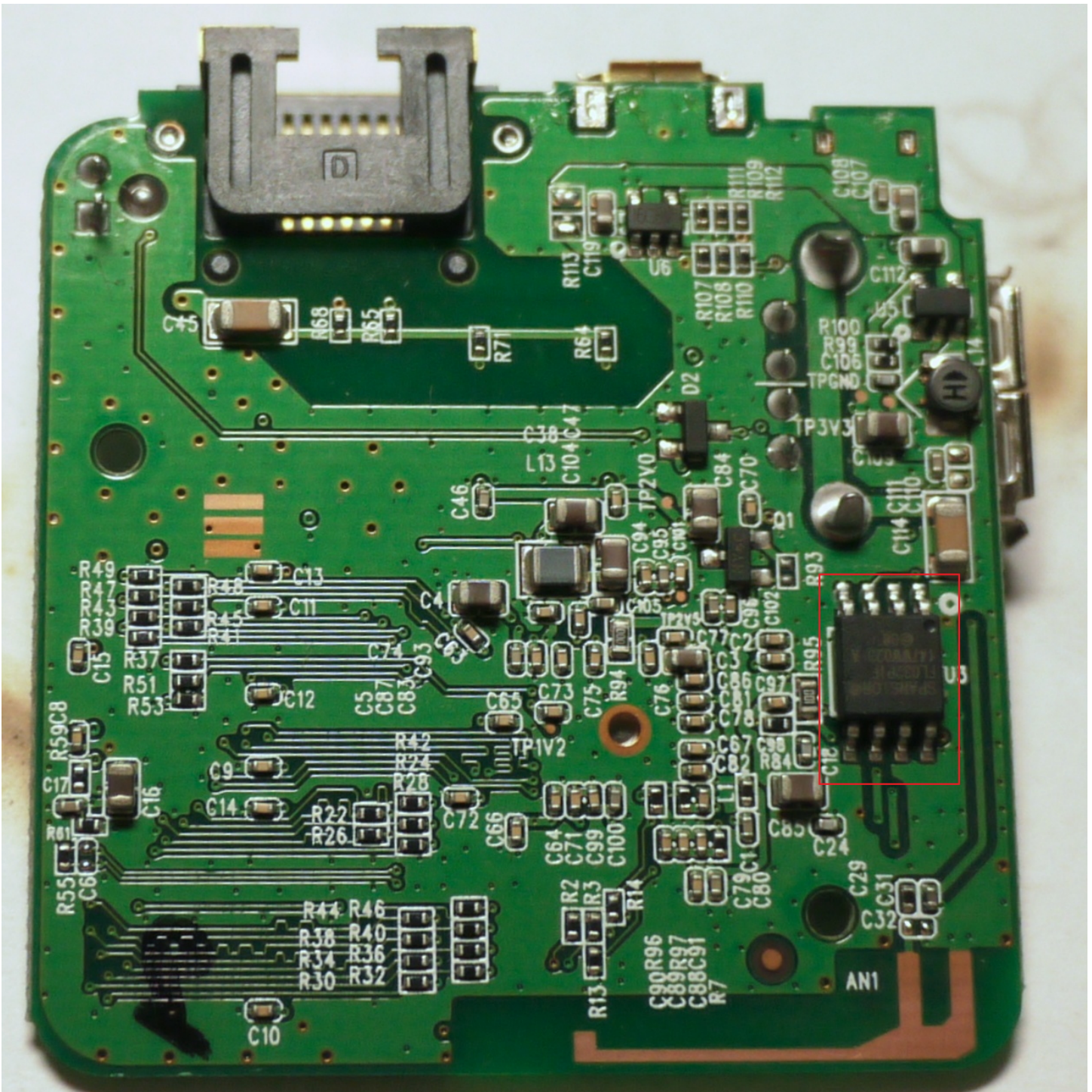
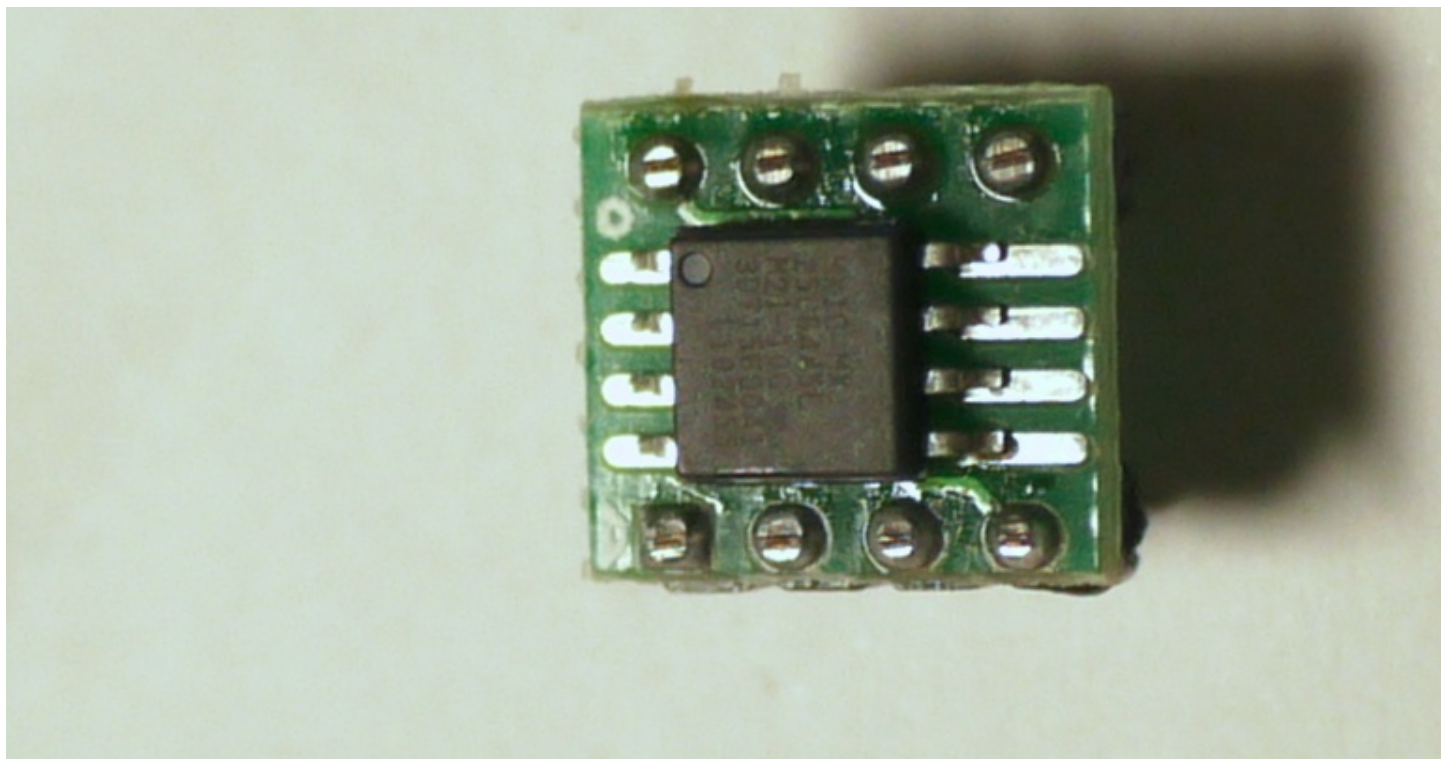


?embedded ???bootloader (?uboot) ??? ???? Flash ?
????IC Reader and Wrtiter IC??? ??????
???FW171 3G (WR703N) 4MB Flash???8MB Flash??

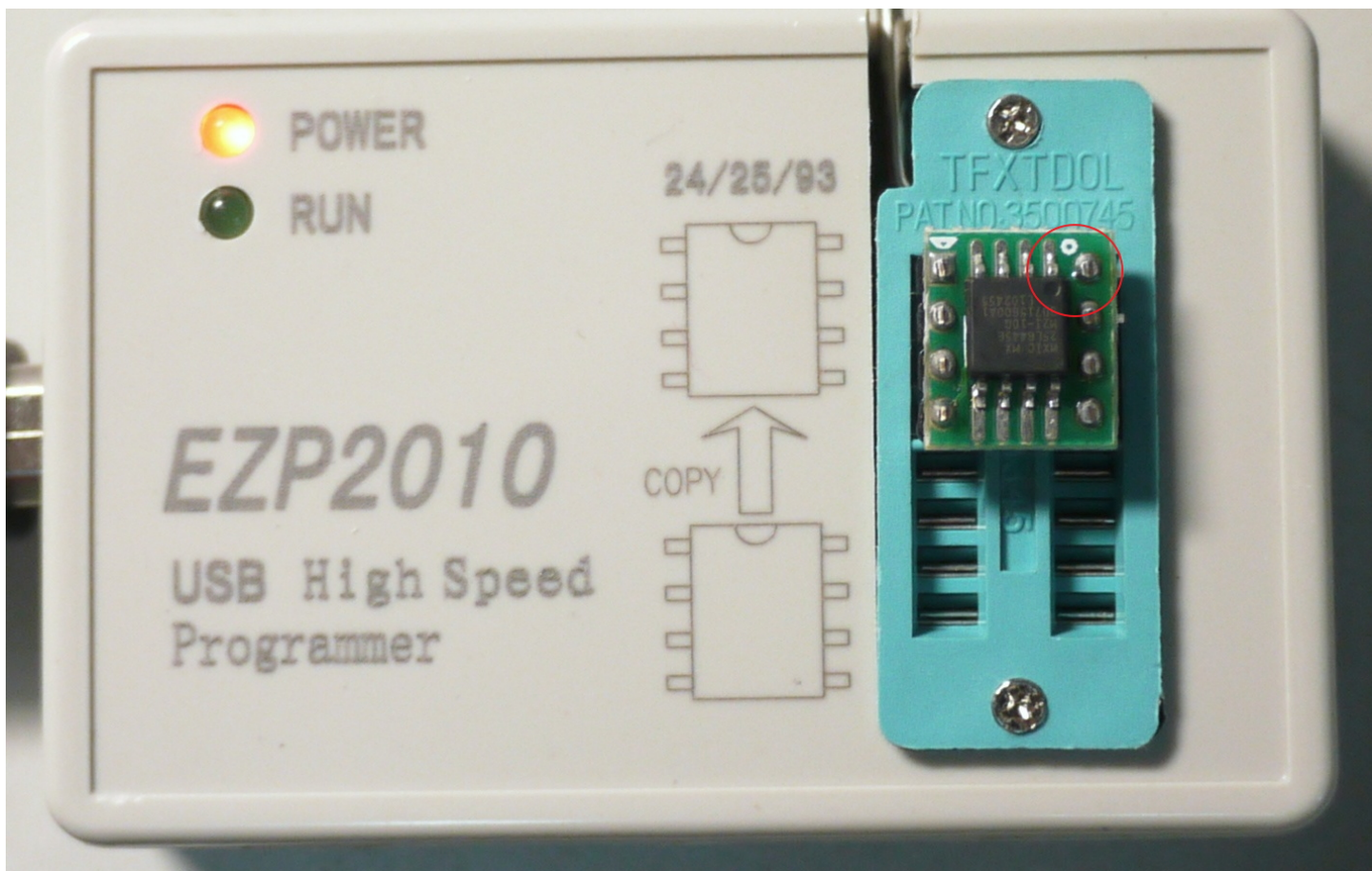
Emebedd system ??Flash IC ??????..
?????Tplink Atheros ??? SPI 8 Pin. ???Tsop ?? ??????SPI 16 pin TSOP ???
???? Nor Flash ??? openwrt ???support FTL
?????MX25L6405D 8MB SPI Nor Flash
<http://wiki.openwrt.org/doc/techref/flash.layout>
<http://wiki.openwrt.org/doc/techref/mtd>



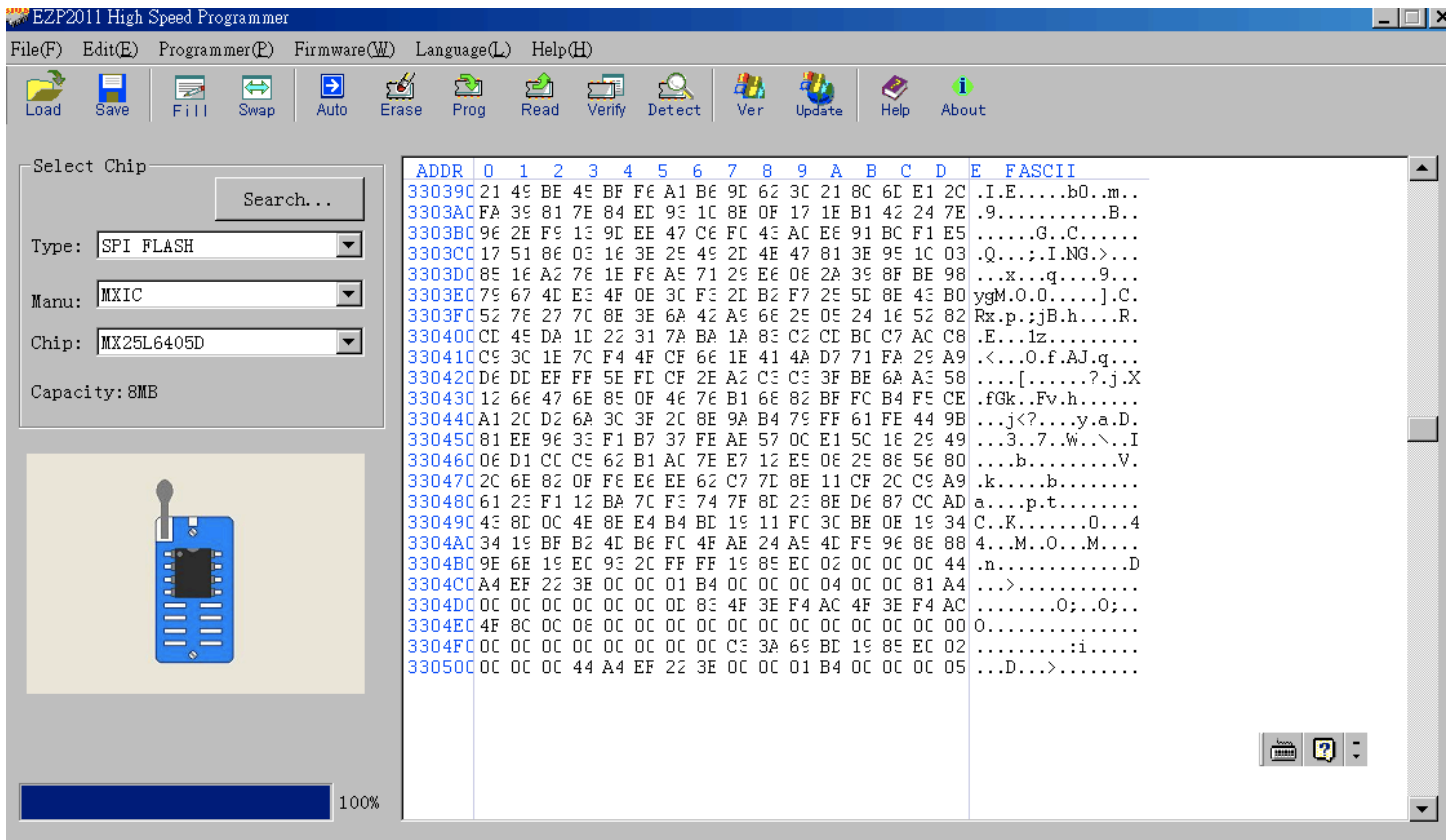
???Nor Flash IC??



????????8MB FLASH ?? TSOP ?DIP ? ??IC??????



TSOP ?DIP ??IC????????



??IC Programer ??Detect .??????
 OSSLab???? 8MB ??????for 703 ,FW171 -3G ,MR11U ??
 ??Erase ?Prog ????? .?????Verify ??

?8MB Flash ?Tsup ??? ??????

```

root@OpenWrt:/# df -h
Filesystem      Size      Used Available Use% Mounted on
rootfs          2.9M      2.8M      140.0K    95% /
/dev/root       2.9M      2.8M      140.0K    95% /
tmpfs           14.4M      36.0K      14.4M     0% /tmp
tmpfs           512.0K      0          512.0K    0% /dev
root@OpenWrt:/#
    
```

?? 4MB Flash ??

```

thx@ubuntu: ~
File Edit View Search Terminal Help
-----
ATTITUDE ADJUSTMENT (Bleeding Edge, r31291)
-----
* 1/4 oz Vodka      Pour all ingredients into mixing
* 1/4 oz Gin        tin with ice, strain into glass.
* 1/4 oz Amaretto
* 1/4 oz Triple sec
* 1/4 oz Peach schnapps
* 1/4 oz Sour mix
* 1 splash Cranberry juice
-----
root@OpenWrt:/# df -h
Filesystem      Size      Used Available Use% Mounted on
rootfs          5.4M      984.0K    4.5M    18% /
/dev/root       1.5M      1.5M      0    100% /rom
tmpfs           14.3M     124.0K    14.1M    1% /tmp
tmpfs           512.0K     0        512.0K    0% /dev
/dev/mtdblock3  5.4M      984.0K    4.5M    18% /overlay
overlayfs:/overlay  5.4M      984.0K    4.5M    18% /
root@OpenWrt:/#

```

???8M Flash ???+4MB

MTD Flash ??

TP-Link WR1043ND Flash Layout					
Layer0	m25p80 w spi 0.0: m25p64 8192KiB				
Layer1	mtd0 u-boot 128KiB	mtd5 firmware 8000KiB			mtd4 art 64KiB
Layer2		mtd1 kernel 1280KiB	mtd2 rootfs 6720KiB		
mountpoint			/		
filesystem			mini_fo		
Layer3			mtd3 rootfs_data 5184KiB		
Size in KiB	128KiB	1280KiB	1536KiB	5184KiB	64KiB
Name	u-boot	kernel		rootfs_data	art
mountpoint	<i>none</i>	<i>none</i>	/rom	/overlay	<i>none</i>
filesystem	<i>none</i>	<i>none</i>	SquashFS	JFFS2	<i>none</i>

```

root@OpenWrt:/# cat /proc/mtd
dev:   size  erasesize  name
mtd0: 00020000 00010000  "u-boot"
mtd1: 000e0000 00010000  "kernel"
mtd2: 002f0000 00010000  "rootfs"
mtd3: 00010000 00010000  "art"
mtd4: 003d0000 00010000  "firmware"

```

???? ??rootfs_data

ART ??? Atheros Radio Test ???wlan Mac address ?wlan ??? ???? ????

<http://www.right.com.cn/forum/thread-72694-1-1.html>
<http://wenku.baidu.com/view/955077d7...aa811da26.html>
<http://wenku.baidu.com/view/7272d829...e09122bd5.html>
<http://wenku.baidu.com/view/8ae40e78...68762d6fa.html>

????FW for IC ??? ?????

1.??IC ??

2.

dd if=/dev/sda of=/temp/backup.dd
 ??wincp??