# Cara Unbrick ASL 26555

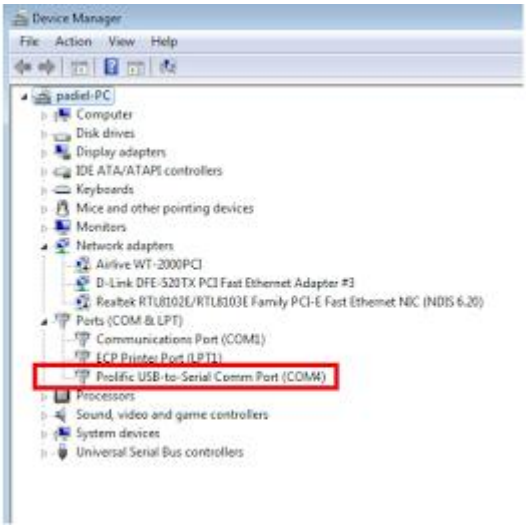
Alat dan bahan pada PC windows7

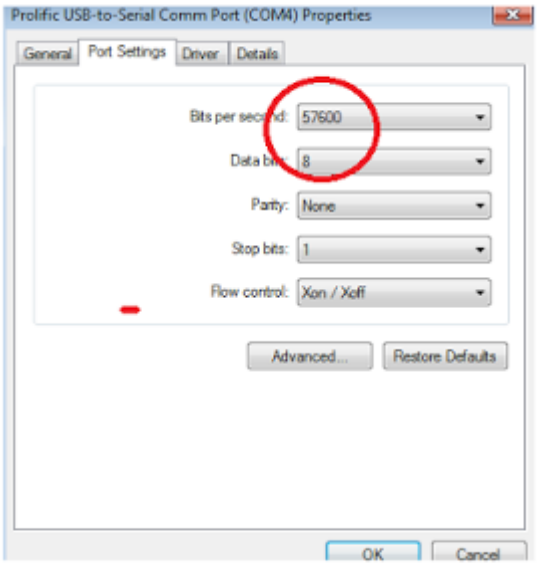
1.Usb TTL biasa murmer driver di sini
2.openwrt versi BB ,versi Trunk
3.TFTP
4.putty
5.Solder dan tinol :)
langkah kerja;


buka box dari bawah , hanya ada dua baud ditutupi karet

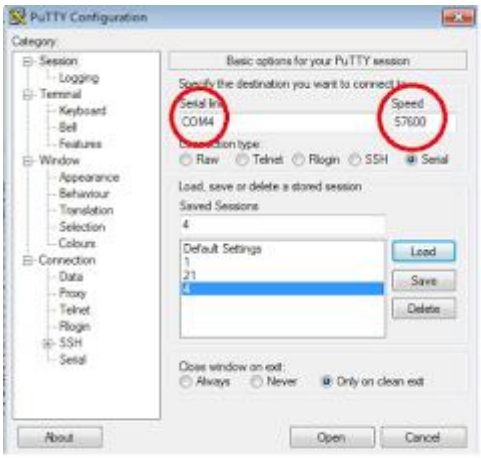
Sambungkan / Solder pin tx rx gnd,dari usb ttl ke router dengan posisi tx ke rx gnd ke gnd


Cek port com usb ttl

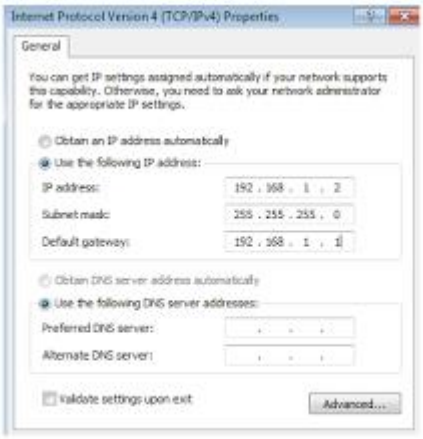





Sesuaikan dengan putty

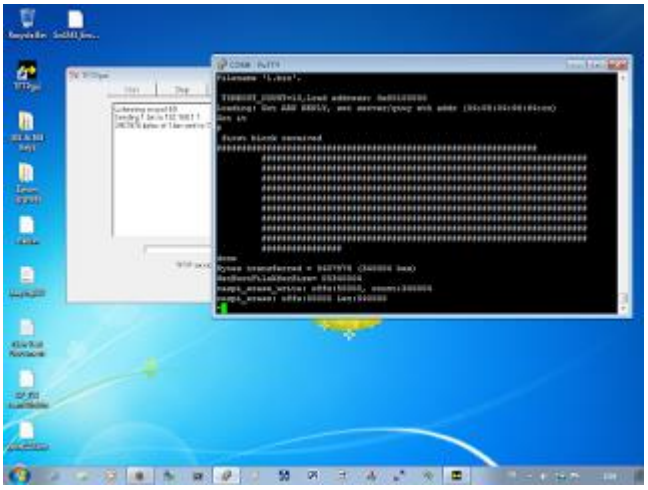



Rubah ip komputer,colokan kabel lan ke roter




Ganti nama openwrt bin menjadi 1.bin dan simpan pada folder tftproot,
sesuaikan ip tftp,
jalankan tftp


jalankan putty,
hidupkan router;
segera ketik 2
ketik y,enter
ketik 192.168.1.1 enter
delet ketik 192.168.1.2
ketik 1.bin enter



berikut hasil dari putty saat proses unbrick dan saat ketik perintah ditunjukan dengan tulisa warna merah

==========
1.0.1 U-Boot 1.1.3 (Nov  1 2010 - 12:17:34) - SVN revision : 14941

Model: ASL-26555

Board: Ralink APSoC DRAM:  32 MB
config usb..
Command "mdio": 0x8020ab80 => 0x81fb6b80
Command "cp": 0x8020c428 => 0x81fb8428
Command "erase": 0x8020c578 => 0x81fb8578
Command "go": 0x8020d940 => 0x81fb9940
Command "reset": 0x8021bbc0 => 0x81fc7bc0
Command "bootm": 0x8020e1b4 => 0x81fba1b4
Command "tftpboot": 0x8020f910 => 0x81fbb910

Command "printenv": 0x8020fed0 => 0x81fbbed0
Command "setenv": 0x80210ac8 => 0x81fbcac8
Command "saveenv": 0x80210c38 => 0x81fbcc38
Command "version": 0x80210d60 => 0x81fbcd60
Command "help": 0x80210dac => 0x81fbcdac
Command "?": 0x80210dac => 0x81fbcdac
Command "httpsvr": 0x80215170 => 0x81fc1170
Command "md": 0x80215690 => 0x81fc1690
Command "mm": 0x802159c8 => 0x81fc19c8
Command "nm": 0x80215a20 => 0x81fc1a20
Command "mw": 0x80215a78 => 0x81fc1a78
spi_wait_nsec: 5f
spi device id: 1 2 16 4d 0 (2164d00)
find flash: S25FL064P
==========
Ralink UBoot Version: 3.3 Alpha
---
ASIC 3052_MP2 (Port5<->RvMII)
DRAM component: 128 Mbits SDR
DRAM bus: 32 bit
Total memory: 32 MBytes
Flash component: SPI Flash
Date:Nov  1 2010  Time:12:17:34
==========
icache: sets:256, ways:4, linesz:32 ,total:32768
dcache: sets:128, ways:4, linesz:32 ,total:16384
## Powering down port 0 ~ 4.

Please choose the operation:
   1: Load system code to SDRAM via TFTP.
   2: Load system code then write to Flash via TFTP.
   3: Boot system code via Flash (default).
   4: Entr boot command line interface.
   9: Load Boot Loader code then write to Flash via TFTP.

Ketik 2

You choosed 2
0
## Powering up port 0 ~ 4.

2: System Load Linux Kernel then write to Flash via TFTP.
 Warning!! Erase Linux in Flash then burn new one. Are you sure?(Y/N)

Ketik Y

 Please Input new ones /or Ctrl-C to discard
       Input device IP (192.168.1.1) ==:192.168.1.1
       Input server IP (5.75.59.250) ==:192.168.1.2 ( Ketik 192.168.1.2 )
       Input Linux Kernel filename (1.bin) ==:1.bin
netboot_common, argc= 3 ( mulai proses )

 KSEG1ADDR(NetTxPacket) = 0xA1FE7480

 NetLoop,call eth_halt !

```
 NetLoop,call eth_init !

 Waitting for RX_DMA_BUSY status Start... done

 Header Payload scatter function is Disable !!

 ETH_STATE_ACTIVE!!
Using Eth0 (10/100-M) device
TFTP from server 192.168.1.2; our IP address is 192.168.1.1
Filename '1.bin'.

 TIMEOUT_COUNT=10,Load address: 0x80100000
Loading: Got ARP REPLY, set server/gtwy eth addr (34:08:04:96:f4:cc)
Got it
#
 first block received
#################################################################
        #################################################################
        #################################################################
        #################################################################
        #################################################################
        #################################################################
        #################################################################
        #################################################################
        #################################################################
        ################
done
Bytes transferred = 3407876 (340004 hex)
NetBootFileXferSize= 00340004
raspi_erase_write: offs:50000, count:340004
raspi_erase: offs:50000 len:340000
**************************************************
raspi_write: to:50000 len:340000
**************************************************
raspi_erase: offs:390000 len:10000
*
raspi_write: to:390000 len:10000
*
Done!
## Booting image at bf050000 ...
   Image Name:   MIPS OpenWrt Linux-3.10.49
   Created:      2014-10-02   7:19:52 UTC
   Image Type:   MIPS Linux Kernel Image (lzma compressed)
   Data Size:    1054561 Bytes =  1 MB
   Load Address: 80000000
   Entry Point:  80000000
   Verifying Checksum ... OK
   Uncompressing Kernel Image ... OK

Starting kernel ...

[    0.000000] Linux version 3.10.49 (bb@builder1) (gcc version 4.8.3 (OpenWrt/Linaro GCC 4.8-
2014.04 r42625) ) #3 Wed Oct 1 16:33:08 CEST 2014
[    0.000000] SoC Type: Ralink RT3052 id:1 rev:3
[    0.000000] bootconsole [early0] enabled
```

```
[    0.000000] CPU revision is: 0001964c (MIPS 24KEc)
[    0.000000] MIPS: machine is Alpha ASL26555
[    0.000000] Determined physical RAM map:
[    0.000000]  memory: 02000000 @ 00000000 (usable)
[    0.000000] Initrd not found or empty - disabling initrd
[    0.000000] Zone ranges:
[    0.000000]   Normal   [mem 0x00000000-0x01ffffff]
[    0.000000] Movable zone start for each node
[    0.000000] Early memory node ranges
[    0.000000]   node   0: [mem 0x00000000-0x01ffffff]
[    0.000000] Primary instruction cache 32kB, VIPT, 4-way, linesize 32 bytes.
[    0.000000] Primary data cache 16kB, 4-way, VIPT, no aliases, linesize 32 bytes
[    0.000000] Built 1 zonelists in Zone order, mobility grouping on.  Total pages: 8128
[    0.000000] Kernel command line: console=ttyS0,57600 rootfstype=squashfs,jffs2
[    0.000000] PID hash table entries: 128 (order: -3, 512 bytes)
[    0.000000] Dentry cache hash table entries: 4096 (order: 2, 16384 bytes)
[    0.000000] Inode-cache hash table entries: 2048 (order: 1, 8192 bytes)
[    0.000000] Writing ErrCtl register=000279c8
[    0.000000] Readback ErrCtl register=000279c8
[    0.000000] Memory: 29156k/32768k available (2284k kernel code, 3612k reserved, 574k data,
212k init, 0k highmem)
[    0.000000] SLUB: HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[    0.000000] NR_IRQS:256
[    0.000000] CPU Clock: 384MHz
[    0.000000] Calibrating delay loop... 255.59 BogoMIPS (lpj=1277952)
[    0.070000] pid_max: default: 32768 minimum: 301
[    0.080000] Mount-cache hash table entries: 512
[    0.090000] pinctrl core: initialized pinctrl subsystem
[    0.100000] NET: Registered protocol family 16
[    0.140000] bio: create slab <bio-0> at 0
[    0.150000] rt2880_gpio 10000600.gpio: registering 24 gpios
[    0.160000] rt2880_gpio 10000600.gpio: registering 24 irq handlers
[    0.170000] Switching to clocksource MIPS
[    0.180000] NET: Registered protocol family 2
[    0.190000] TCP established hash table entries: 512 (order: 0, 4096 bytes)
[    0.210000] TCP bind hash table entries: 512 (order: -1, 2048 bytes)
[    0.220000] TCP: Hash tables configured (established 512 bind 512)
[    0.230000] TCP: reno registered
[    0.240000] UDP hash table entries: 256 (order: 0, 4096 bytes)
[    0.250000] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
[    0.260000] NET: Registered protocol family 1
[    0.270000] rt-timer 10000100.timer: maximum frequncy is 7812Hz
[    0.320000] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[    0.340000] jffs2: version 2.2 (NAND) (SUMMARY) (LZMA) (RTIME) (CMODE_PRIORITY) (c)
2001-2006 Red Hat, Inc.
[    0.360000] msgmni has been set to 56
[    0.370000] io scheduler noop registered
[    0.370000] io scheduler deadline registered (default)
[    0.390000] Serial: 8250/16550 driver, 16 ports, IRQ sharing enabled
[    0.420000] 10000c00.uartlite: ttyS0 at MMIO 0x10000c00 (irq = 20) is a 16550A
[    0.430000] console [ttyS0] enabled, bootconsole disabled
[    0.430000] console [ttyS0] enabled, bootconsole disabled
[    0.460000] m25p80 spi32766.0: s25sl064p (8192 Kbytes)
[    0.470000] 6 ofpart partitions found on MTD device spi32766.0
[    0.480000] Creating 6 MTD partitions on "spi32766.0":
[    0.500000] 0x000000000000-0x000000030000 : "uboot"
[    0.510000] 0x000000030000-0x000000040000 : "uboot-env"
```

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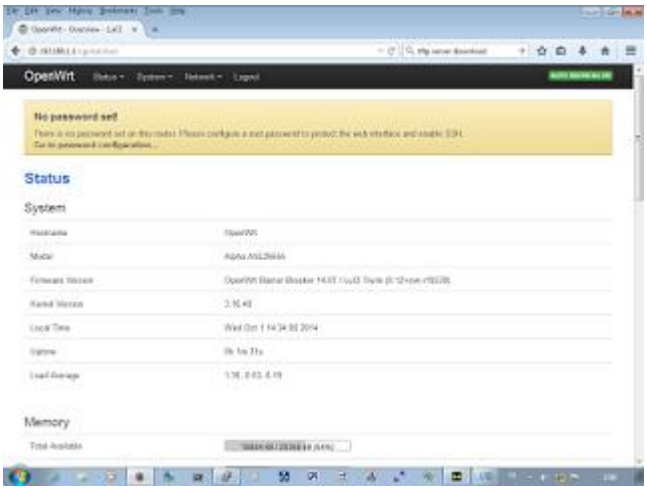
[    0.520000] 0x000000040000-0x000000050000 : "rgdb"
[    0.540000] 0x000000050000-0x0000007e0000 : "firmware"
[    0.550000] 0x0000001517a1-0x0000007e0000 : "rootfs"
[    0.560000] mtd: partition "rootfs" must either start or end on erase block boundary or be smaller
than an erase block -- forcing read-only
[    0.590000] mtd: device 4 (rootfs) set to be root filesystem
[    0.600000] mtd: partition "rootfs_data" created automatically, ofs=0x370000, len=0x470000
[    0.620000] 0x000000370000-0x0000007e0000 : "rootfs_data"
[    0.630000] 0x0000007e0000-0x0000007f0000 : "cert"
[    0.650000] 0x0000007f0000-0x000000800000 : "langpack"
[    0.670000] eth0: done loading
[    0.680000] rt2880_wdt 10000120.watchdog: Initialized
[    0.690000] TCP: cubic registered
[    0.700000] NET: Registered protocol family 17
[    0.710000] Bridge firewalling registered
[    0.710000] 8021q: 802.1Q VLAN Support v1.8
[    0.740000] VFS: Mounted root (squashfs filesystem) readonly on device 31:4.
[    0.760000] Freeing unused kernel memory: 212K (802cb000 - 80300000)
procd: Console is alive
procd: - watchdog -
[    5.630000] usbcore: registered new interface driver usbfs
[    5.640000] usbcore: registered new interface driver hub
[    5.650000] usbcore: registered new device driver usb
[    5.680000] dwc_otg: version 2.72a 24-JUN-2008
[    5.680000] dwc_otg: Core Release: 2.66a
[    5.890000] dwc_otg: Periodic Transfer Interrupt Enhancement - disabled
[    5.910000] dwc_otg: Multiprocessor Interrupt Enhancement - disabled
[    5.920000] dwc_otg: Using DMA mode
[    5.930000] dwc_otg: Device using Buffer DMA mode
[    5.940000] dwc_otg 101c0000.otg: DWC OTG Controller
[    5.950000] dwc_otg 101c0000.otg: new USB bus registered, assigned bus number 1
[    5.960000] dwc_otg 101c0000.otg: irq 26, io mem 0x101c0000
[    5.970000] dwc_otg: Init: Port Power? op_state=1
[    5.980000] dwc_otg: Init: Power Port (0)
[    5.990000] hub 1-0:1.0: USB hub found
[    6.000000] hub 1-0:1.0: 1 port detected
[    6.010000] leds-gpio gpio-leds.4: pins are not configured from the driver
procd: - preinit -
Press the [f] key and hit [enter] to enter failsafe mode
Press the [1], [2], [3] or [4] key and hit [enter] to select the debug level
jffs2 is not ready - marker found
procd: - early -
procd: - watchdog -
procd: - ubus -
procd: - init -
Please press Enter to activate this console.
[   12.780000] NET: Registered protocol family 10
[   12.800000] nf_conntrack version 0.5.0 (458 buckets, 1832 max)
[   12.820000] ip6_tables: (C) 2000-2006 Netfilter Core Team
[   12.850000] Loading modules backported from Linux version master-2014-05-22-0-gf2032ea
[   12.870000] Backport generated by backports.git backports-20140320-37-g5c33da0
[   12.890000] ip_tables: (C) 2000-2006 Netfilter Core Team
[   12.970000] xt_time: kernel timezone is -0000
[   13.010000] cfg80211: Calling CRDA to update world regulatory domain
[   13.030000] cfg80211: World regulatory domain updated:
[   13.040000] cfg80211:  DFS Master region: unset
[   13.050000] cfg80211:   (start_freq - end_freq @ bandwidth), (max_antenna_gain, max_eirp),
```

(dfs_cac_time)
[ 13.060000] cfg80211: (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 13.080000] cfg80211: (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 13.100000] cfg80211: (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000 mBm), (N/A)
[ 13.110000] cfg80211: (5170000 KHz - 5250000 KHz @ 160000 KHz), (N/A, 2000 mBm), (N/A)
[ 13.130000] cfg80211: (5250000 KHz - 5330000 KHz @ 160000 KHz), (N/A, 2000 mBm), (0 s)
[ 13.150000] cfg80211: (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000 mBm), (0 s)
[ 13.160000] cfg80211: (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000 mBm), (N/A)
[ 13.180000] cfg80211: (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0 mBm), (N/A)
[ 13.280000] PPP generic driver version 2.4.2
[ 13.300000] NET: Registered protocol family 24
[ 13.350000] ieee80211 phy0: rt2x00_set_rt: Info - RT chipset 2872, rev 0200 detected
[ 13.370000] ieee80211 phy0: rt2x00_set_rf: Info - RF chipset 0008 detected
[ 24.260000] jffs2_scan_eraseblock(): End of filesystem marker found at 0x0
[ 24.290000] jffs2_build_filesystem(): unlocking the mtd device... done.
[ 24.300000] jffs2_build_filesystem(): erasing all blocks after the end marker... [ 29.080000] device eth0.1 entered promiscuous mode
[ 29.090000] device eth0 entered promiscuous mode
[ 29.130000] br-lan: port 1(eth0.1) entered forwarding state
[ 29.140000] br-lan: port 1(eth0.1) entered forwarding state
[ 31.140000] br-lan: port 1(eth0.1) entered forwarding state
done.
[ 57.830000] jffs2: notice: (881) jffs2_build_xattr_subsystem: complete building xattr subsystem, 0 of xdatum (0 unchecked, 0 orphan) and 0 of xref (0 dead, 0 orphan) found.
procd: - init complete -

Cek di browser 192.168.1.1




selesai...