

[04010C0E][04010C09]
DDR Calibration DQS reg = 00008587

U-Boot 1.1.3 (Sep 22 2016 - 14:56:24)

Board: Ralink APSoC DRAM: 64 MB
relocate_code Pointer at: 83fb8000
flash manufacture id: ef, device id 40 17
find flash: W25Q64BV
*** Warning - bad CRC, using default environment

Ralink UBoot Version: 5.0.0.0

ASIC 7628_MP (Port5<->None)
DRAM component: 512 Mbits DDR, width 16
DRAM bus: 16 bit
Total memory: 64 MBytes
Flash component: SPI Flash
Date: Sep 22 2016 Time: 14:56:24

icache: sets:512, ways:4, linesz:32 ,total:65536
dcache: sets:256, ways:4, linesz:32 ,total:32768

The CPU freq = 580 MHZ #####
estimate memory size =64 Mbytes
RESET MT7628 PHY!!!!!!
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.
7: Load Boot Loader code then write to Flash via Serial.
9: Load Boot Loader code then write to Flash via TFTP.
default: 3 0

3: System Boot system code via Flash.
Booting image at bc050000 ...
Image Name: Linux Kernel Image
Image Type: MIPS Linux Kernel Image (lzma compressed)
Data Size: 4372636 Bytes = 4.2 MB
Load Address: 80000000
Entry Point: 8000c150
Verifying Checksum ... OK
Uncompressing Kernel Image ... OK
No initrd
Transferring control to Linux (at address 8000c150) ...
Giving linux memsize in MB, 64

Starting kernel ...

LINUX started...

THIS IS ASIC
Linux version 2.6.36 (simon@simon-VirtualBox) (gcc version 4.6.3 (Buildroot 2012.11.1)) #402 Tue Jul 4 15:19:19
CST 2017

The CPU feqenuce set to 580 MHz

MIPS CPU sleep mode enabled.
CPU revision is: 00019655 (MIPS 24Kc)
Software DMA cache coherency
Determined physical RAM map:
memory: 04000000 @ 00000000 (usable)
Initrd not found or empty - disabling initrd

Zone PFN ranges:
Normal 0x00000000 -> 0x00004000
Movable zone start PFN for each node
early_node_map[1] active PFN ranges
0: 0x00000000 -> 0x00004000
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 16256
Kernel command line: console=ttyS1,57600n8 root=/dev/ram0 console=ttyS0
PID hash table entries: 256 (order: -2, 1024 bytes)
Dentry cache hash table entries: 8192 (order: 3, 32768 bytes)
Inode-cache hash table entries: 4096 (order: 2, 16384 bytes)
Primary instruction cache 64kB, VIPT, 4-waylinesize 32 bytes.
Primary data cache 32kB, 4-way, PIPT, no aliases, linesize 32 bytes
Writing ErrCtl register=00000007
Readback ErrCtl register=00000007
Memory: 57164k/65536k available (3671k kernel code, 8336k reserved, 1099k data, 2748k init, 0k highmem)
NR_IRQS:128
console [ttyS1] enabled
Calibrating delay loop... 386.04 BogoMIPS (lpj=772096)
pid_max: default: 32768 minimum: 301
Mount-cache hash table entries: 512
NET: Registered protocol family 16
RALINK_GPIOMODE = 54050404
RALINK_GPIOMODE = 54040404
***** Xtal 40MHz *****
start PCIe register access
RALINK_RSTCTRL = 2400000
RALINK_CLKCFG1 = fdbfffc0

***** MT7628 PCIe RC mode *****
PCIE0 no card, disable it(RST&CLK)
bio: create slab <bio-0> at 0
vgaarb: loaded
SCSI subsystem initialized
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
Switching to clocksource Ralink Systick timer
NET: Registered protocol family 2
IP route cache hash table entries: 1024 (order: 0, 4096 bytes)
TCP established hash table entries: 2048 (order: 2, 16384 bytes)
TCP bind hash table entries: 2048 (order: 1, 8192 bytes)
TCP: Hash tables configured (established 2048 bind 2048)
TCP reno registered
UDP hash table entries: 256 (order: 0, 4096 bytes)
UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
NET: Registered protocol family 1
RT3xxx EHCI/OHCI init.
fuse init (API version 7.15)
msgmni has been set to 111
Block layer SCSI generic (bsg) driver version 0.4 loaded (major 254)
io scheduler noop registered (default)
Ralink gpio driver initialized
Serial: 8250/16550 driver, 2 ports, IRQ sharing disabled
serial8250: ttyS0 at MMIO 0x10000d00 (irq = 21) is a 16550A
serial8250: ttyS1 at MMIO 0x10000c00 (irq = 20) is a 16550A
brd: module loaded
flash manufacture id: ef, device id 40 17
W25Q64BV(ef 40170000) (8192 Kbytes)
mtd .name = raspi, .size = 0x00800000 (8M) .erasesize = 0x00010000 (64K) .numeraseregions = 0
Creating 5 MTD partitions on "raspi":
0x000000000000-0x000000800000 : "ALL"
0x000000000000-0x000000030000 : "Bootloader"
0x000000030000-0x000000040000 : "Config"
0x000000040000-0x000000050000 : "Factory"
0x000000050000-0x000001000000 : "Kernel"
mtd: partition "Kernel" extends beyond the end of device "raspi" -- size truncated to 0x7b0000
rdm_major = 253

= Everyday Genius =

Password for 'admin' changed

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##### disable 1st wireless interface #####
rmmmod: mt_wifi: No such file or directory
insmod: mt_wifi.ko: module not found
TX_BCNC DESC a2f5b000 size = 320
RX[0] DESC a2f5d000 size = 3584
RX[1] DESC a2f5e000 size = 1024
E2pAccessMode=0
cfg_mode=9
cfg_mode=9
wmode_band_equal(): Band Equal!
AndesSendCmdMsg: Could not send in band command due to diable
fRTMP_ADAPTER_MCU_SEND_IN_BAND_CMD
APSDCapable[0]=0
APSDCapable[1]=0
APSDCapable[2]=0
APSDCapable[3]=0
APSDCapable[4]=0
APSDCapable[5]=0
APSDCapable[6]=0
APSDCapable[7]=0
APSDCapable[8]=0
APSDCapable[9]=0
APSDCapable[10]=0
APSDCapable[11]=0
APSDCapable[12]=0
APSDCapable[13]=0
APSDCapable[14]=0
APSDCapable[15]=0
default ApCliAPSDCapable[0]=0
Key1Str is Invalid key length(0) or Type(0)
Key2Str is Invalid key length(0) or Type(0)
Key3Str is Invalid key length(0) or Type(0)
Key4Str is Invalid key length(0) or Type(0)
RTMPSetDefaultChannel() : default channel to 1
load fw image from fw_header_image
AndesMTLoadFwMethod1(2182)::pChipCap->fw_len(63888)
FW Version:20151201
FW Build Date:20151201183641
CmdAddressLenReq:(ret = 0)
CmdFwStartReq: override = 1, address = 1048576
CmdStartDLRsp: WiFi FW Download Success
MtAsicDMASchedulerInit(): DMA Scheduler Mode=0(LMAC)
efuse_probe: efuse = 10000012
RtmpChipOpsEepromHook::e2p_type=2, inf_Type=4
RtmpEepromGetDefault::e2p_default=2
RtmpChipOpsEepromHook: E2P type(2), E2pAccessMode = 2, E2P default = 2
NVM is FLASH mode
1. Phy Mode = 14
Country Region from e2p = ffff
tssi_1_target_pwr_g_band = 34
2. Phy Mode = 14
3. Phy Mode = 14
NICInitPwrPinCfg(11): Not support for HIF_MT yet!
NICInitializeAsic(651): Not support rtmp_mac_sys_reset () for HIF_MT yet!
mt_mac_init()-->
MtAsicInitMac()-->
mt7628_init_mac_cr()-->
MtAsicSetMacMaxLen(1276): Set the Max RxPktLen=400!
<--mt_mac_init()
    WTBL Segment 1 info:
        MemBaseAddr/FID:0x28000/0
        EntrySize/Cnt:32/128
    WTBL Segment 2 info:
```

```
MemBaseAddr/FID:0x40000/0
EntrySize/Cnt:64/128
WTBL Segment 3 info:
MemBaseAddr/FID:0x42000/64
EntrySize/Cnt:64/128
WTBL Segment 4 info:
MemBaseAddr/FID:0x44000/128
EntrySize/Cnt:32/128
AntCfgInit(2947): Not support for HIF_MT yet!
MCS Set = ff 00 00 00 01
MtAsicSetChBusyStat(861): Not support for HIF_MT yet!
CmdSlotTimeSet:(ret = 0)
[PMF]ap_pmf_init:: apidx=0, MFPC=0, MFPR=0, SHA256=0
MtAsicSetRalinkBurstMode(3047): Not support for HIF_MT yet!
MtAsicSetPiggyBack(796): Not support for HIF_MT yet!
reload DPD from flash , 0x9F = [c600] doReload bit7[0]
CmdLoadDPDDDataFromFlash: Channel = 1, DoReload = 0
MtAsicSetTxPreamble(3026): Not support for HIF_MT yet!
MtAsicSetPreTbtt(): bss_idx=0, PreTBTT timeout = 0xf0
ap_ftkd> Initialize FT KDP Module...
Main bssid = 30:eb:1f:17:e6:f2
<==== rt28xx_init, Status=0
@@@ ed_monitor_exit : ==>
@@@ ed_monitor_exit : <====
mt7628_set_ed_cca: TURN OFF EDCCA mac 0x10618 = 0xd7083f0f, EDCCA_Status=0
WiFi Startup Cost (ra0): 3.700s
ifconfig: ioctl 0x8913 failed: No such device
brctl: bridge br0: No such device or address
iptables v1.4.10: can't initialize iptables table `filter': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
iptables v1.4.10: can't initialize iptables table `mangle': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
##### configVIF #####
30:FFFFFFEB:1F:17:FFFFFFE6:FFFFFFF4
Raeth v3.1 (Tasklet)

phy_tx_ring = 0x02a74000, tx_ring = 0xa2a74000

phy_rx_ring0 = 0x02a76000, rx_ring0 = 0xa2a76000
GMAC1_MAC_ADRH -- : 0x000030eb
GMAC1_MAC_ADRL -- : 0x1f17e6f4
RT305x_ESW: Link Status Changed
vconfig: ioctl error for rem: No such device
vconfig: ioctl error for rem: No such device
rmmod: 8021q: No such file or directory
device eth2 entered promiscuous mode
##### config Ralink ESW vlan partition (WLLLL) #####
switch reg write offset=14, value=405555
switch reg write offset=50, value=2001
switch reg write offset=98, value=7f3f
switch reg write offset=e4, value=3f
switch reg write offset=40, value=1002
switch reg write offset=44, value=1001
switch reg write offset=48, value=1001
switch reg write offset=70, value=ffff417e
done.
device ra0 entered promiscuous mode
device eth2.1 entered promiscuous mode
udhcpd (v1.12.1) started
br0: port 2(eth2.1) entering learning state
br0: port 2(eth2.1) entering learning state
br0: port 1(ra0) entering learning state
br0: port 1(ra0) entering learning state
ifconfig: ioctl 0x8914 failed: Cannot assign requested address
ifconfig: ioctl 0x8914 failed: Cannot assign requested address
br0: port 2(eth2.1) entering forwarding state
br0: port 1(ra0) entering forwarding state
```


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sh: /bin/super_dmz: not found
iptables v1.4.10: Couldn't load target `port_forward':File not found

Try `iptables -h' or 'iptables --help' for more information.
iptables: No chain/target/match by that name.
iptables v1.4.10: Couldn't load target `DMZ':File not found

Try `iptables -h' or 'iptables --help' for more information.
iptables: No chain/target/match by that name.
180
0
180
0
sh: ddns.sh: not found
0
webs: Listening for HTTP requests at address 10.10.10.254
Hotplug Storage init #####
Wi-Fi(1): 2.4G
Wi-Fi(2): 5G
1st partition does not exist
sh: /etc_ro/lighttpd/www/cgi-bin/usb.cgi: not found
1970-01-01 00:00:23: (log.c.97) server started
init: can't log to /dev/tty5
starting pid 7364, tty '/dev/ttyS1': '/bin/sh'

BusyBox v1.12.1 (2017-07-04 14:34:11 CST) built-in shell (ash)
Enter 'help' for a list of built-in commands.

#