

Linux Kernel v2.6.21 Configuration

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Linux Kernel Configuration
Arrow keys navigate the menu. <Enter> selects submenus ---. Highlighted letters are
hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press
<Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [*] built-in [ ] excluded
<M> module < > module capable

Machine selection --->
Endianness selection (Little endian) --->
CPU selection --->
Kernel type --->
Code maturity level options --->
General setup --->
Loadable module support --->
Block layer --->
Bus options (PCI, PCMCIA, EISA, ISA, TC) --->
Executable file formats --->
Power management options --->
Networking --->
Device Drivers --->
File systems --->
Profiling support --->
Kernel hacking --->
Security options --->
Cryptographic options --->

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<Select> < Exit > < Help >
```

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System type (Ralink RT3883 board) --->
Soc Hardware Type (RT3883/RT3662-ASIC) --->
RT3883 PCI architecture (PCIe RC ONLY) --->
DRAM Size (64M) --->
Flash Type (SPI) --->
[ ] Dual Image
Root File System Type (RootFS_in_RAM) --->
(16384) Default RAM disk size
[*] Compress ramdisk by lzma instead of gzip
[ ] Ralink DFS Timer

<Select> < Exit > < Help >
```

<Exit>

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File systems --->
Profiling support --->
Kernel hacking --->
Security options --->
Cryptographic options --->
Library routines --->
Ralink Module --->
```

```
---
Load an Alternate Configuration File
Save an Alternate Configuration File
```

<Select> <Exit> <Help>

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Device Drivers
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```
Generic Driver Options --->
Connector - unified userspace <-> kernelspace linker --->
Memory Technology Devices (MTD) --->
Parallel port support --->
Plug and Play support --->
Block devices --->
Misc devices --->
ATA/ATAPI/MFM/RLL support --->
SCSI device support --->
Serial ATA (prod) and Parallel ATA (experimental) drivers --->
Multi-device support (RAID and LVM) --->
Fusion MPT device support --->
IEEE 1394 (FireWire) support --->
I2O device support --->
Network device support --->
ISDN subsystem --->
Telephony Support --->
Input device support --->
Character devices --->
I2C support --->
SPI support --->
Dallas's 1-wire bus --->
Hardware Monitoring support --->
```

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<Select> <Exit> <Help>

```
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Character devices
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[*] Ralink GPIO Support
[*] Ralink GPIO LED Support
< > Ralink GDMA Support
--- Ralink RT2880 SPI Support
[ ] SPI CS0(Chip Select) is high active
[ ] SPI CS1(Chip Select) is high active
[*] WiteSS Switch CS Pin Connects to SPI CS1
[ ] SLIC CS Pin Connects to SPI CS1
< > Ralink RT2880 I2C Support
< > Ralink PCM Support
< > Ralink I2S Support
[ ] Virtual terminal
[*] Non-standard serial port support
< > Computone IntelliPort Plus serial support
< > Control RocketPort support
< > Cyclades async mux support
< > DigiBoard Intelligent Async Support
< > Moxa Intellio support
< > Moxa SmartIO support (OBSOLETE)
< > Moxa SmartIO support v. 2.0
< > Multi-Tech multiport card support (EXPERIMENTAL)
< > SyncLink Multiport support
< > SyncLink GT/AC support
..(+)
```

<Exit>

<Exit>

<Exit>

<Yes>

2. Configure 2nd WiFi interface, RT5392:

<please refer *Ralink_RT3883_Concurrent_AP_User_Guide.pdf*>

3. Compile

```
$ make dep
$ make
```

[Uboot]

1. Configure for RT3883 SPI Flash reference board

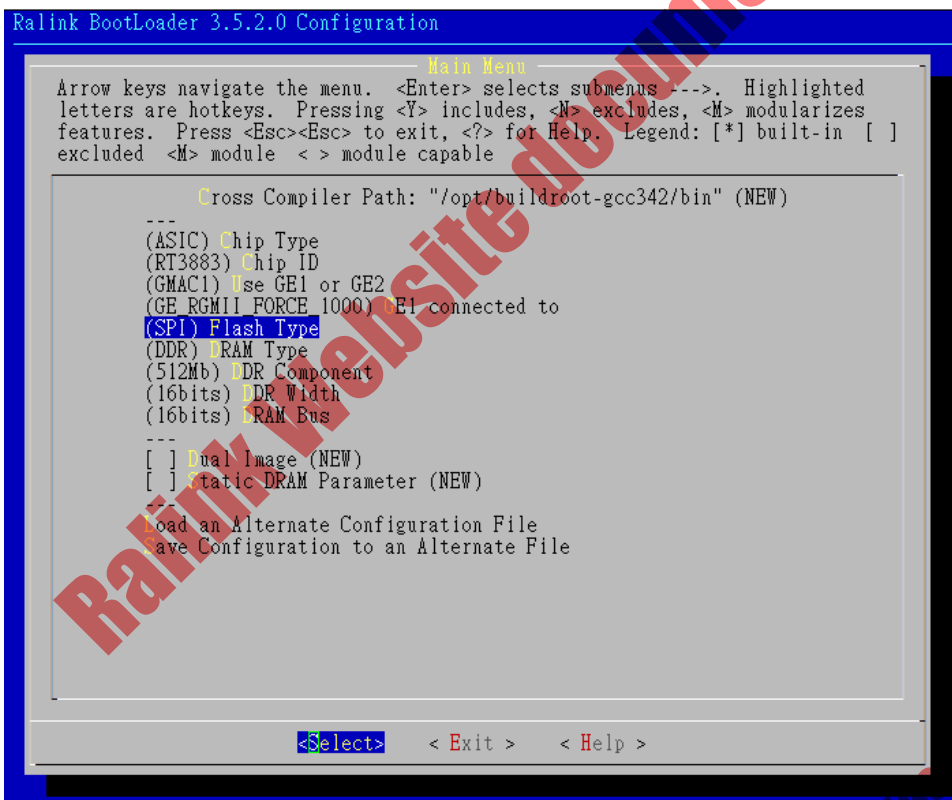
```
$ cd Uboot
$ vi config.mk
```

```

RALINK_GDMA_DUP_TX_RING_TEST_FUNC = OFF
RALINK_MUTI_TX_DESCRIPTOR_TEST_FUNC = OFF
RALINK_CACHE_STATE_DETECT_FUNC = OFF
RALINK_SEGMENT_SIZE_ALIGN_TEST_FUNC = OFF
RALINK_INTERNAL_LOOPBACK_TEST_FUNC = OFF
RALINK_SDRAM_CONTROLLER_REFRESH_CYCLE_TEST_FUNC = OFF
RALINK_DDR_CONTROLLER_OPTIMIZATION = OFF
RALINK_CPU_AUTO_FREQUENCY = OFF
RALINK_SDR_PRECHARGE_POWER_DOWN = OFF
RALINK_DDR_SELF_REFRESH_POWER_SAVE_MODE = OFF
RALINK_RT3052_PHY_TEST = OFF
RALINK_SPI_UPGRADE_CHECK = ON
RALINK_NAND_UPGRADE_CHECK = ON
RALINK_RW_RF_REG_FUNC = ON
RALINK_EHCI = OFF
RALINK_OHCI = OFF
RALINK_VITESSE_SWITCH_CONNECT_SPI_CS1 = ON
RALINK_SPI_CS0_HIGH_ACTIVE = OFF
RALINK_SPI_CS1_HIGH_ACTIVE = OFF

```

\$ make menuconfig



<Exit>

<Yes>

2. Compile Uboot

\$ make