



# MediaTek Feature List In Menuconfig

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## Document Revision History

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Revision	Date	Author	Description
1.0	2011-12-22	Fred.li	Initial version

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## 1 CPU

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Feature List	Description
TCSUPPORT_CPU_TC3162U	TC3162U
TCSUPPORT_CPU_RT63260	RT63260
TCSUPPORT_CPU_TC3182	TC3182
TCSUPPORT_CPU_RT65168	RT63168
TCSUPPORT_CPU_RT63365	RT63365

## 2 WAN Transfer Mode

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Feature List	Description
TCSUPPORT_WAN_ATM	WAN transfer mode support ATM
TCSUPPORT_WAN_PTM	WAN transfer mode support PTM
TCSUPPORT_WAN_ETHER	WAN transfer mode support ATM

### 3 SDRAMSIZE

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Feature List	Description
TCSUPPORT_SDRAM_8M	8M memory
TCSUPPORT_SDRAM_16M	16M memory
TCSUPPORT_SDRAM_32M	32M memory
TCSUPPORT_SDRAM_64M	64M memory
TCSUPPORT_BOOT_LZMA	Support bootloader compression

## 4 Auto Config

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Feature List	Description
TCSUPPORT_KERNELCONFIG_TC3162U	kernel config for tc3162u
TCSUPPORT_KERNELCONFIG_TC3162U_IPv6	kernel config for tc3162u ip v6
TCSUPPORT_KERNELCONFIG_TC3182	kernel config for tc3182
TCSUPPORT_KERNELCONFIG_RT63365	kernel config for rt63365
TCSUPPORT_KERNELCONFIG_RT65168	kernel config for rt65168
TCSUPPORT_BUSYBOXCONFIG_TC3162	Busy box config for tc3162
TCSUPPORT_BUSYBOXCONFIG_TC3162_PB	Busy box config for tc3162 pure bridge
TCSUPPORT_BUSYBOXCONFIG_TC3162_IPv6	Busy box config for tc3162 ipv6
TCSUPPORT_BUSYBOXCONFIG_TC3162U	Busy box config for tc3162u
TCSUPPORT_BUSYBOXCONFIG_TC3162U_IPv6	Busy box config for tc3162u ipv6
TCSUPPORT_BUSYBOXCONFIG_TC3262	Busy box config for tc3262

## 5 DMT

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Feature List	Description
TCSUPPORT_DMT_3085	Discrete MultiTone module type
TCSUPPORT_DMT_3086	Discrete MultiTone module type
TCSUPPORT_DMT_3087	Discrete MultiTone module type
TCSUPPORT_DMT_3095	Discrete MultiTone module type



## 6 Drivers

Feature List	Description
TCSUPPORT_DUAL_IMAGE	Support Dual image function(TC3162U and RT63260 only)
TCSUPPORT_DUAL_IMAGE_ENHANCE	Support Dual image enhancement:main image and slave image auto synchronization; Modify the offset of slave image from 0x500000 to half of flash_size
TCSUPPORT_TR68LED	Make light power to red when CPE boot, and light power to greenwhen led driver insmod
TCSUPPORT_WLAN	WiFi support
TCSUPPORT_WLAN_8021X	Support 802.1X funciton for WiFi
TCSUPPORT_WLAN_8021X_EXT	Support secondary Radius server for 802.1x
TCSUPPORT_WLAN_8021X_EXT_SHOW_MAC	Show mac address of each client on lan side web gui,for 802.1x
TCSUPPORT_WLAN_WPS	Support WPS function for WiFi
TCSUPPORT_WLAN_WDS	Support WDS function for WiFi
TCSUPPORT_WLAN_IGMPSNOOP	Support IGMP function for WiFi
TCSUPPORT_WLAN_ATE	Using ATE cmds to change WiFi paramers
TCSUPPORT_WLAN_QATool	QA tool for WLAN debug
TCSUPPORT_WLAN_GPIO	wifi led option for RT65168 and RT63365
TCSUPPORT_WLAN_WPS_LEDPEC	WPS led acts following the WFA spec
TCSUPPORT_WLAN_RT2561	WiFi set selection
TCSUPPORT_WLAN_RT3390	WiFi set selection
TCSUPPORT_WLAN_RT5392	WiFi set selection
TCSUPPORT_WLAN_RT5390	WiFi set selection
TCSUPPORT_WLAN_RT3090	WiFi set selection
TCSUPPORT_USBHOST	Support USB host on CPE
TCSUPPORT_USB_NTFS	Support NTFS format
TCSUPPORT_USB_AUTOMOUNT	Support USB auto mount function
TCSUPPORT_USB_PRINTER_SERVER	Support USB printer server
TCSUPPORT_USB_3G_DONGLE	Support 3g dongle
TCSUPPORT_USB_CAMERA	Support USB camera

TCSUPPORT_USBDEVICE20	Support CPE as 2.0 device
TCSUPPORT_TC2031	LEH support(single ether port)
TCSUPPORT_CMDAPI	Upper layer API for commands, suggest to open forcefully
TCSUPPORT_HWNAT	Support Hardware NAT function(For RT65168)
TCSUPPORT_RA_HWNAT	Support Hardware NAT function(for RT63365)

## 7 Common

Feature List	Description
TCSUPPORT_IPV6	IPv6 function(basic) on CPE
TCSUPPORT_IPV6_ENHANCEMENT	Enhancement for IPv6, suggested to open if IPv6 opened
TCSUPPORT_DSLITE	IPv6 Dual Stack
TCSUPPORT_6RD	Support technique of IPv6 Rapid-Deployment (6RD)
TCSUPPORT_OPT212	Support Option 212 in 6RD
TCSUPPORT_IPV6_ADVANCE	Enhancement for IP v6 basic function
TCSUPPORT_IPV6_FIREWALL	Security enhancement for IPv6
TCSUPPORT_IPV6_FIREWALL_RFC2827	Firewall support RFC2827:Network Ingress Filtering: Defeating Denial of Service which employ IP Source Address Spoofing
TCSUPPORT_IPV6_TELNET	Telnet server for IP v6
TCSUPPORT_IPV6_TFTP	Tftp server for IPv6
TCSUPPORT_IPV6_FTP	FTP server for IPv6
TCSUPPORT_IPV6_INETD	INETD for IPv6
TCSUPPORT_VOIP	enable VOIP functionality
TCSUPPORT_VOIP_WITH_DSP_AC	select AudioCode DSP with 2s10 zalink SLIC, (2s10 means 2 FXS interfaces and 1 FXO interface)
TCSUPPORT_VOIP_WITH_DSP_D2	select D2 DSP with 1s silab SLIC
TCSUPPORT_VOIP_WITH_DSP_D2_2S10	select D2 DSP with 2s10 zalink SLIC
TCSUPPORT_VOIP_WITH_DSP_D2_2S10_SILAB	select D2 DSP with 2s10 Silab SLIC
TCSUPPORT_CWMP	TR69
TCSUPPORT_CWMP_CRPORTCHANGE	Support "connection request port" take effect immediately after change
TCSUPPORT_CWMP_PRECISE_TIME	Record current CPE time when start download/upload or we complete download. Record current time when send random inform as well

TCSUPPORT_RANDOM_INFORM	The CWMP client establishes a connection to ACS on bootup. In order to avoid that several CPE's contact ACS simultaneously after a power failure, a boot delay range shall be specified
TCSUPPORT_CWMP_VDSL	TR69 node for VDSL/PTM
TCSUPPORT_TRACEROUTE	TR69 node for TraceRoute
TCSUPPORT_DOWNSTREAM_QOS	support for DOWNSTREAM QOS
TCSUPPORT_QOS	Support CAR(Committed Access Rate) strategy, App QoS, wan interface QoS, QoS template
TCSUPPORT_PORTBIND	Support port binding function
TCSUPPORT_VLAN_TAG	support vlan tag function(Wan side, output direction)
TCSUPPORT_VTAG_ALLDEV	support vlan tag function(Wan and LAN , output direction)
TCSUPPORT_WEBSERVER_SSL	Support HTTPS for webserver
TCSUPPORT_SSH	Support SSH function
TCSUPPORT_SNMP	SNMP function
TCSUPPORT_SNMP_FULL	SNMP function with trap function
TCSUPPORT_START_TRAP	Support snmp start trap: 1.Code start is defined when power on/off 2.warm start is defined when "reboot"
TCSUPPORT_SNMP_V3	Support SNMP V3
TCSUPPORT_IPV6_SNMP	Support IPv6 SNMP
TCSUPPORT_SNMP_REDUCED	SNMP function without trap function
TCSUPPORT_SNMP_TRUSTIP	support trust ipv6 check for SNMP
TCSUPPORT_SNMP_ATMADSL	Support SNMP nodes of system, interface, atm and adsl
TCSUPPORT_ALIASIP	Support alias IP
TCSUPPORT_DHCP_STATIC	Support static IP reservation
TCSUPPORT_DHCP_PROFILE	Support DHCP Option60 and Option240
TCSUPPORT_MLD_PROXY	Support IPv6 MLD proxy and MLD snooping
TCSUPPORT_IGMP_PROXY_V3	IGMP proxy support igmpv3
TCSUPPORT_IGMP_SNOOPING	Support Igmp Snooping
TCSUPPORT_IGMP_SNOOPING_V3	Support igmpsnooping v3
TCSUPPORT_SMUX	Support SMUX function
TCSUPPORT_MTD_ENHANCEMENT	Support new mechanism of operating flash according to mtd tool

TCSUPPORT_RESERVEAREA_BLOCK	Support Read/Write from specified block
TCSUPPORT_BACKUPROMFILE	Support backup romfiles:backup romfile and default romfile. If the romfile initialization fail, backup romfile will be motivated ,and if the backup romfile still fail reading, default romfile will be motivated, if there's still error, read configuration in filesystem
TCSUPPORT_PRODUCTIONLINE	Support automatic configuration of CWMP related parameters: ManufacturerOUI and ProductClass
TCSUPPORT_SYSLOG	Support SYSlog server function
TCSUPPORT_SYSLOG_ENHANCE	Enhancement of Syslog function: 1.support syslog classification 2.Support maximum number of syslog to 500 ,and the earliest 300 will be stored into flash 3.Support remote syslog server
TCSUPPORT_REMOTE_SYSLOG	Control whether the configuration fo remote syslog be shown on WEB GUI.
TCSUPPORT_DMS	Support DLNA DMS function(basic types)
TCSUPPORT_DMS_FULL_FORMAT	Support DLNA DMS function(full format support)
TCSUPPORT_BRIDGE_FASTPATH	stop fast bridge before remove wifi module and enable fastbridge after insert wifi module.
RA_PARENTALCONTROL	Add Parental Control functions, the webpage locates in "Access Management"
TCSUPPORT_PARENTALCONTROL_URLBLOCK	Add URL FILTER for Parental Control
TCSUPPORT_SIPROXD	Add siproxd support for VOIP
TCSUPPORT_SAMBA	Samba Server Support
TCSUPPORT_CODE_SHRINK	Support webpage code shrink (RT3162u and RT63260 only)
TCSUPPORT_MNT_CONF	1. Add mnt.conf to configure mount 2. free resources when unmount fail
RA_ETHERMEDIATYPE	Add mediatype icon on web gui

TCSUPPORT_MODEL_CHECK	Support modelcheck when firmware upgrade, make sure firmware other than specified manufacture can not be used
TCSUPPORT_PORT_TRIGGER	Support Port Triggering function in iptable
TCSUPPORT_RA_GUI	Control the web display by the Compile Option to make sure the unenabled feature not shown
TCSUPPORT_FILTER_DSCP	support DSCP maskings filter
TCSUPPORT_DHCP_PORT_FLT	Support DHCP PORT filter
TCSUPPORT_1NTP_SERVER	Support 1 NTP server
TCSUPPORT_2NTP_SERVER	Support 2 NTP server
TCSUPPORT_3NTP_SERVER	Support 3 NTP server
TCSUPPORT_TFTP_UPGRADE_PROTECT	When user want ot upgrade firmware bt tftp, they need to use telnet or the firmeare upgrade will fail
TCSUPPORT_TR069_OPT43	automatic configures TR069 parameters using Option43 in CWMP
TCSUPPORT_GENERAL_MULTILANGUAGE	Support Multi-Language on web GUI
TCSUPPORT_MODEL_NAME_CUSKIT	Support model name customrization in cuskit. The model name will show on window of WEB login
TCSUPPORT_MEMORY_CONTROL	Memory control to prevent memory exhausted(control Socket buffer)
TCSUPPORT_FTP_THROUGHPUT	1.dynamic loading some modules when enabled 2.Remove extra check on packets (Used for RT63260 only )
TCSUPPORT_SBTHROUGHPUT_ENHANCE	Improve smartbit throughput
TCSUPPORT_VPN_SWITCH_GUI	swith button on GUI
TCSUPPORT_LAYER3FORWARD_ENHANCEMENT	support parameter of InternetGatewayDevice.Layer3Forwarding.Fo rwarding for CWMP
TCSUPPORT_RESTORE_LINOS_INFO	Restore Mac address when upgrade from linos to linux
TCSUPPORT_WPA_SUPPLICANT	support 802.1x IPoE supplicant
TCSUPPORT_SUPPORT_FLASH	Add hidden page to show supported flash information, for instance, <a href="http://192.168.1.1/test_version.asp">http://192.168.1.1/test_version.asp</a>

TCSUPPORT_TEST_LED_ALL	Add command to test LED, including "sys led on" and "sys led off" to control 1)Power LED 2)DSL LED 3)DATA LED 4)WPS LED
TCSUPPORT_RESTORE_ROM_T	Restore some information when upgrade from linos to Linux
TCSUPPORT_WLAN_MAXSTANUM_GUI	Configable Maximum client number limitation for the wireless LAN
TCSUPPORT_MULTISERVICE_ON_WAN	add Multi-service on wan support. This Feature only for PTM and WanEther.