



**User Guide**

# **Home Internet Router**



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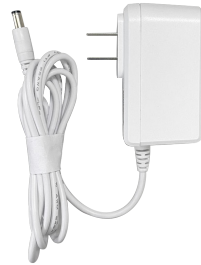
# 1. Inside the box

Thank you for choosing Tracfone Home Internet Router (Model Num. xxxxxxxx). Once you open the product package, you should find the following items inside:

## Home Internet Router



## Power Adapter

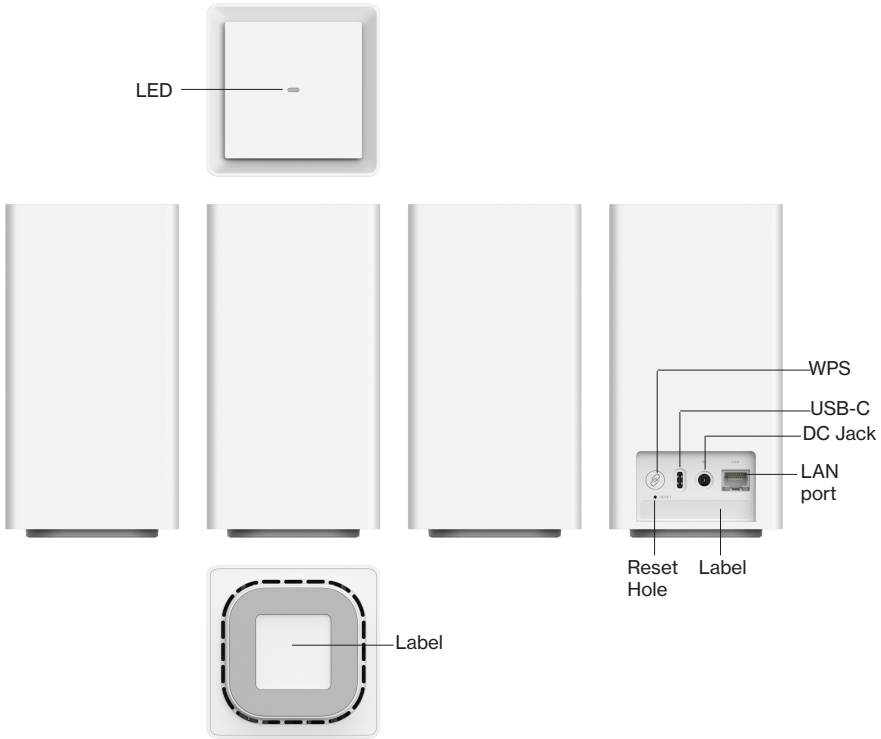


# 2. Introducing Your Home Internet Router

Supporting 5G NR, 4G LTE and Wi-Fi 6 multi-connectivity, the latest Home Internet Router is the optimal device for delivering ultra-fast and secure wireless networks for your connected devices.

Offering connectivity to up to 128 devices within predefined range, you can share this express Internet service simultaneously with people in your place. The Home Internet Router also features bandsteering that assigns connected devices between 2.4GHz and 5GHz wireless networks to optimize bandwidths. It also includes security filtering and parental controls to help you keep track of your users and to offer greater protection in your online environment. Setting up your own passwords or removing devices from your router is all within your control.

Take a quick tour of your device.














\*Network performance varies depending on the available frequency bands in places where the router is in use.











# 2.1 Parts and Functions

Parts	Description
LED	Indicate the status of power and connectivity, as well as WPS connectivity.
LAN port	One RJ-45 GbE LAN port for connection with external device through Ethernet cable (not included).
USB-C 2.0	USB Type-C 2.0 port
DC IN	DC Power In - The DC power jack that connects the 5G Internet Router to a power outlet.
WPS button	Push this button to enable WPS (Wi-Fi Protected Setup). Use WPS to add supported Wi-Fi devices to your network. Remember to enable WPS on the Wi-Fi devices you wish to add.
Reset pin hole	Press the reset pin hole with pin to force a cold reset of your router. Your router will return to factory default setting. Only use the Reset when you experience issues with the router or have to revert all the settings you have configured for the router.
Label	The label provides default URL and password for you to connect to wireless network at the first time you set up this device. The label also provides information about the product's ID and regulatory standards.

## 2.2 LED Status and Indications

LED Mode	Status	LED Pattern
Bootup	System Off	Off 
	System Booting	Soft Blink White 
	Firmware Update (FOTA)	Fast Blink White 
Cellular signal (or after single-clicking the pair button)	Passing Signal	Solid White 
	No Signal, Cold SIM	Solid Red 
	No SIM Card	Hard Blink Red 
Regular usage	Setup Complete	50% Bright White 
	Wi-Fi Disabled by User	Solid Green 
Paring	WPS Pairing	Hard Blink Blue 
Other	Factory Reset	Fast Blink Lime 
	FW Error	Soft Blink Red 

## 2.3 Ethernet Port LED Mode

Ethernet Port LED Mode	Status	Left LED	Right LED
Wired LAN connection	Ethernet > 100M* Link	Off 	Solid White 
	Ethernet > 100M* Activity	Off 	Blinking White 
	Ethernet < 100M* Link	Solid Yellow 	Off 
	Ethernet < 100M* Activity	Blinking Yellow 	Off 
	No Ethernet Connection	Off 	Off 

**Note about \*:** Threshold level can be determined based on port capability.

# 3. Setting Up Your Home Internet Router

Your Home Internet Router comes with a pre-installed SIM card.

The following sections will help you connect and configure your device to the network.

## 3.1 Positioning Your Router

Before setting up the router, it is recommended to take the following notes into consideration for optimal signal strength:

- Near a window where the signal is mostly uninterrupted
- On a flat surface
- Keep a minimum distance of 20 centimeters between the router and your body
- In an open space with as few blocking objects or obstructions as possible. For instance, make sure the number of walls and ceilings between the router and your wireless devices are minimized
- Elevated surface
- Keep the router away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, heavy-duty motors, fluorescent lights, and some industrial equipments that may generate signal interferences with your router.
- Do not place heavy objects on the device, for instance, sitting on the device.
- Avoid positioning it
  - next to a wall that may obstruct the signal
  - near heavy-duty appliances
  - close to metal fixtures, enclosures, cabinets, or thick concrete.
  - in a basement
  - on the floor or lower surface

**Note:** Try not to reposition the router if the signal is good. If the position of the installation changes, the signal strength may be affected.

## 3.2 Setup Requirements

To configure wireless network with a PC, your computer shall meet the following requirements:

- For Wired Connection --> Ethernet RJ 45 (LAN) port (10Base T/100Base TX/1000BaseTX)
- For Wi-Fi Connection --> IEEE 802.11a/b/g/n/ac /ax wireless capability
- TCP/IP protocol support
- Web browser such as Microsoft Edge , Firefox, Safari, or Google Chrome



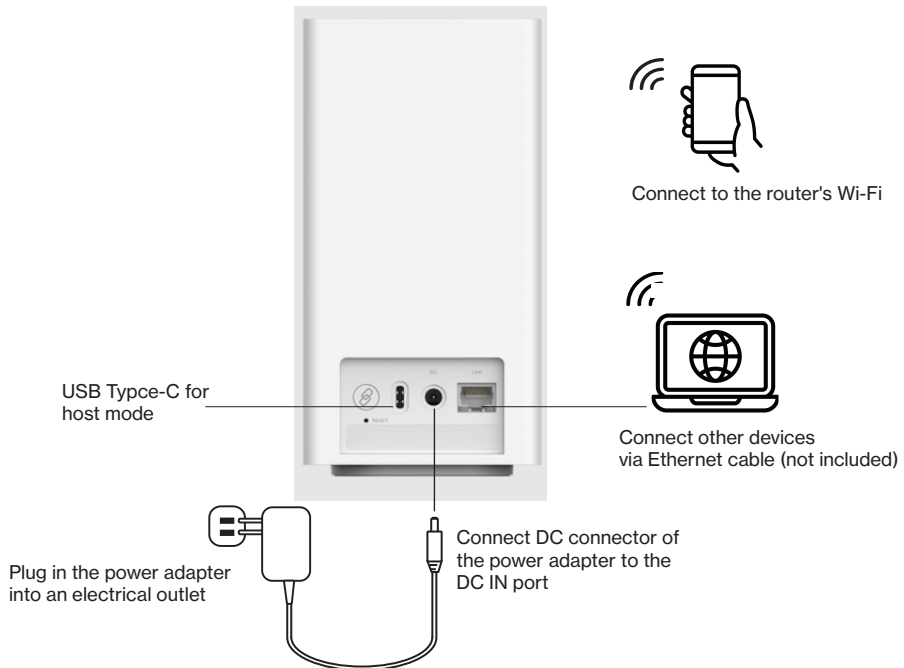
## 3.3 Setting Up

1. Connect the included Power Adapter to the DC IN power port of the router.
2. Plug the Power Adapter to an electrical outlet.
3. Wait for a short moment for the router to power up and connect to 4G LTE/5G network.
4. The LED shall display ON and settles solid soon after powering up.
5. Your Internet device shall be able to connect to the Wi-Fi network of your router named **Verizon\_BG6H44 (TBD)**.

For information about the default password of the router's Wi-Fi network, check the product label on the bottom side of your router.

### Connecting via Ethernet

- The router can connect to other devices via Ethernet connections. Use an Ethernet cable (not included) and plug one end into the LAN port of the router (as shown below), and plug another end of the cable into an available LAN port of the other device.



# 4. Logging Into Your Home Internet Router

After connecting your device to your router, you can log in to your router's Web User Interface (Web UI) to access network information such as connected devices and data usage, and to configure the setting and functions, such as Wi-Fi security. You may log to the Web UI through a computer or a mobile device.

The following sections will describe how to access the Web UI and perform your configurations.

## 4.1 Connect and Log in via Wi-Fi

1. You can automatically connect your device by scanning the QR code on the product label. To connect manually, move to step 2.
2. Scan available Wi-Fi networks with your mobile device (the image below is a sample screenshot from a mobile phone).
3. Select the Wi-Fi network named **Verizon\_BG6H44 (TBD)**, which is the default Wi-Fi network name shown in your router's product label on the bottom side.
4. Enter your Wi-Fi password , which can also be found on your router 's product label on the bottom side of the unit.
5. Open a web browser and enter the router's default Admin URL **http://192.168.0.1** in the address bar and enter the default Admin Password (displayed on your router 's product label on the bottom side of the unit).
6. Click Login.

OpenWrt

No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.

Authorization Required

Please enter your username and password.

Username

root

Password

Login

Reset

Powered by LuCI CYP/dev/EXTERNAL/7750/1907mp/1V1.28/BSP branch (git-22.257.33231-0e8a865) / OpenWrt 19.07-SNAPSHOT:rb+11018-0e8a865e60

**Note:** once login is successful, it is recommended to set the password first for securing the web interface. Go to **System --> Administration** to set router password.

# 4.2 Connect and Log in via Ethernet

1. You can use an Ethernet cable (not included) to connect your computer to the router 's LAN port for configuration (as illustrated in **3.3 Setting UP**).
2. Open a web browser and enter the router 's default Admin URL **http://192.168.0.1** the address bar and enter the default Admin Password (displayed on your router 's product label on the bottom side of the unit).
3. Click Login.

OpenWrt

No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.

Authorization Required

Please enter your username and password.

Username

root

Password

Login

Reset

Powered by LuCI CYP(dev)/EXTERNAL/7750/1907mp1V1 28/BSP branch (git-22.257.33231-0e8a865) / OpenWrt 19.07-SNAPSHOT r0+11018-0e8a865e60

**Note:** once login is successful, it is recommended to set the password first for securing the web interface. Go to **System --> Administration** to set router password.


# 5. Configuring Your Router with the Web UI

You can configure functions of your router on the Web UI. To access the Web UI, open a web browser and enter the router's admin address **http://192.168.0.1** in the address bar.

## 5.1 Status

### > Status

The **Status** page is the home page of the Web UI, displaying general status information for your router covering System, Memory, Network, DHCP, and Dynamic DNS.

The task bar on top offers accesses to configure specific functions of your router. Use the drop-down arrow to open their sub-menu .

OpenWrt

Status ▾

System ▾

VPN ▾

Services ▾

Network ▾

Telephony ▾

MTK ▾

Statistics ▾

Logout

REFRESHING

Status

System

Hostname	OpenWrt
Model	evb6890v1_64_cpe
Architecture	ARMv8 Processor rev 0 (v8l)
Firmware Version	OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341 / LuCI CYP(dev)EXTERNAL/T750/1907mp1V1.28/BSP branch git-22.304.24905-8dd6934
Kernel Version	4.19.205-gc91a4191d34
IMEI	358835490018410
Local Time	2022-10-31 09:23:59
Uptime	2h 15m 32s
Load Average	3.23, 3.12, 3.10

Memory

Total Available	<div><div></div></div> 1.31 GB / 1.62 GB (80%)
Used	<div><div></div></div> 358.52 MB / 1.62 GB (21%)
Buffered	<div><div></div></div> 16.66 MB / 1.62 GB (1%)
Cached	<div><div></div></div> 55.73 MB / 1.62 GB (3%)
Swap free	<div><div></div></div> 716.00 MB / 716.00 MB (100%)


Network

**Note:** the images in this chapter serves as reference only and are subject to change due to future updates without prior notices.

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## Introducing the Task Bar

### Status

Use the drop-down arrow  to access the following options:


- Overview
- Firewall
- Routes
- System Log
- Kernel Log
- Processes
- Realtime Graphs
- VnStat Traffic Monitor

### System

Use the drop-down arrow  to access the following options:

- System
- Administration
- Software
- Startup
- Scheduled Tasks
- LED Configuration
- Back up / Flash Firmware
- Reboot
- Log Control

### VPN

Use the drop-down arrow  to access the following options:

- OpenVPN
- VPN Bypass

### Services

Use the drop-down arrow  to access the following options:


- Dynamic DNS
- uHTTPd

### Network

Use the drop-down arrow  to access the following options:


- Interfaces
- DHCP and DNS
- Hostnames
- Static Routes
- Firewall
- Diagnostics
- Configure Diagnostics
- QoS
- IP Security

### Telephony

Use the drop-down arrow  to access the following options:


- Overview

### MTK

Use the drop-down arrow  to access the following options:

- WiFi configuration
- Web Console
- EasyMesh

### Statistics

Use the drop-down arrow  to access the following options:

- Graphs
- Setup

### Logout

Click it to log out the Web UI.

# 5.2.1 Overview

> Status > Overview

From the Overview, you can view general status information for your router covering System, Memory, Network, DHCP, and Dynamic DNS.

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

REFRESH

Status

System

Hostname	OpenWrt
Model	evb6890v1_64_cpe
Architecture	ARMv8 Processor rev 0 (v8l)
Firmware Version	OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341 / LuCI CYPidev/EXTERNAL/750/1907mp1V1.28/BSP branch gh-22.304.24905-8dd6934
Kernel Version	4.19.205-gc91a4191df34
IMEI	358835490018410
Local Time	2022-10-31 09:25:19
Uptime	2h 16m 52s
Load Average	3.06, 3.09, 3.09

Memory

Total Available	<div><div></div></div> 1.31 GB / 1.62 GB (80%)
Used	<div><div></div></div> 368.52 MB / 1.62 GB (21%)
Buffered	<div><div></div></div> 16.67 MB / 1.62 GB (1%)
Cached	<div><div></div></div> 55.73 MB / 1.62 GB (3%)
Swap free	<div><div></div></div> 716.00 MB / 716.00 MB (100%)

Network

Active Connections	<div><div></div></div> 64 / 16384 (0%)
--------------------	--

Active DHCP Leases

Hostname	IPv4-Address	MAC-Address	Leasetime remaining
JackSNHu	192.168.0.153	7C:D3:0A:90:7F:71	10h 25m 51s

Active DHCPv6 Leases

# 5.2.2 Firewall

## > Status > Firewall

From the **Firewall Status**, you may click [IPv4 Firewall](#) or [IPv6 Firewall](#) to view their respective status. By default, the firewall status is displayed in multiple IP tables, chains, and policies.

To change your viewing preferences, you may click [Hide empty chains](#), [Reset Counters](#), and [Restart Firewalls](#).

OpenWrt

StatusSystemVPNServicesNetworkTelephonyMTKStatisticsLogout

REFRESHING

Firewall Status

IPv4 FirewallIPv6 Firewall

Hide empty chainsReset CountersRestart Firewall

Table: Filter

Chain INPUT (Policy: ACCEPT, 0 Packets, 0 B Traffic)

Pkts.	Traffic	Target	Prot.	In	Out	Source	Destination	Options	Comment
1.88 K	139.04 KB	ACCEPT	all	lo	*	0.0.0.0/0	0.0.0.0/0	-	-
12.58 K	1.66 MB	input_rule	all	*	*	0.0.0.0/0	0.0.0.0/0	-	Custom input rule chain
8.33 K	1.36 MB	ACCEPT	all	*	*	0.0.0.0/0	0.0.0.0/0	ctstate RELATED,ESTABLISHED	-
346	17.99 KB	syn_flood	tcp	*	*	0.0.0.0/0	0.0.0.0/0	tcp flags:0x17/0x02	-
4.25 K	301.75 KB	zone_lan_input	all	br-lan	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	zone_wan_input	all	eth1	*	0.0.0.0/0	0.0.0.0/0	-	-

Chain FORWARD (Policy: DROP, 0 Packets, 0 B Traffic)

Pkts.	Traffic	Target	Prot.	In	Out	Source	Destination	Options	Comment
0	0 B	IP_LEAKAGE_PROTECT	all	*	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	forwarding_rule	all	*	*	0.0.0.0/0	0.0.0.0/0	-	Custom forwarding rule chain
0	0 B	ACCEPT	all	*	*	0.0.0.0/0	0.0.0.0/0	ctstate RELATED,ESTABLISHED	-
0	0 B	zone_lan_forward	all	br-lan	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	zone_wan_forward	all	eth1	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	reject	all	*	*	0.0.0.0/0	0.0.0.0/0	-	-

Chain OUTPUT (Policy: ACCEPT, 0 Packets, 0 B Traffic)

Pkts.	Traffic	Target	Prot.	In	Out	Source	Destination	Options	Comment
1.88 K	139.04 KB	ACCEPT	all	*	lo	0.0.0.0/0	0.0.0.0/0	-	-
12.69 K	9.09 MB	output_rule	all	*	*	0.0.0.0/0	0.0.0.0/0	-	Custom output rule chain

Hide empty chains

Reset Counters

Restart Firewall

Click to hide/show empty chains

Click to reset counters for the firewall rules

Click to restart the firewall if necessary

# 5.2.3 Routes

> **Status** > **Routes**

The **Routes** page displays currently active rules of your network such as ARP, IPv4 Routes, IPv6 Neighbors, and IPv6 Routes, each with its attributes and parameters displayed, such as MAC address, IP address, network, table, and interface.

OpenWrt

Status

System

VPN

Services

Network

Telephony

MTK

Statistics

Logout

Routes

The following rules are currently active on this system.

ARP

IPv4.Address	MAC.Address	Interface
192.168.0.153	7C:D3:0A:90:7F:71	lan

Active IPv4-Routes

Network	Target	IPv4.Gateway	Metric	Table
lan	192.168.0.0/24	-	0	main

IPv6 Neighbours

IPv6.Address	MAC.Address	Interface
--------------	-------------	-----------

Active IPv6-Routes

Network	Target	Source	Metric	Table
---------	--------	--------	--------	-------

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## 5.2.4 System Log

### > Status > System Log

The **System Log** displays the system log of your router.

OpenWrt

Status ▾

System ▾

VPN ▾

Services ▾

Network ▾

Telephony ▾

MTK ▾

Statistics ▾

Logout

### System Log

```
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 173
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 121
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 123
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 8
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 51
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 133
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 10
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 118
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 137
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 147
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 149
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 14
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 157
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 159
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 163
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 171
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 179
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] id = 181
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] initModuleList
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] modem[] is enable
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] modem_type = 1, modem_number = 1, active_modem_id = 1
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] read boot mode struct len = 16
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] boot boot mode size = 3, tag = 1090521090, mode = 0
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] Normal mode boot
Mon Oct 31 07:09:05 2022 daemon.debug [META][14564] [Meta] not meta mode boot
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14546]: myMkdir.mkdir: access file ok
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: getSavedLoggingMode.UCI md_save_mode = 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: getSavedLoggingMode.Get auto start mode: 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: property_set_property_set ok. mdlogger_Running=0 return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: main getSavedLoggingMode(): mode = 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: property_set_property_set ok. mdt_run_folders= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: property_set_property_set ok. mdt_EE_folders= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: property_set_property_set ok. pulimdiogs= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: property_set_property_set ok. mdt_EE_done= return 0
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14546]: getDefauitConfigData.EE reset 0.Configure:3.new version:1
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14546]: upgradeCustomizeConfig.No need upgradeCustomizeConfig for old version:1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: getNewCustomizeConfig.getNewCustomizeConfig ok
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: initModelConfigure.ModelLogConfigure normal file size 20 m_nLogConfigValue = 3
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: MAL_Init.MAL_Init
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14546]: MAL_ccb_init.MAL_ccb_init
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14546]: checkValidMdStatusDone checkValidMdStatusDone status = ready
Mon Oct 31 07:09:05 2022 kern.info kernel: [ 37.835933] [0][14546:mdlogger][1]cc01/chr/port ccci_ccb_dhl open with flag 20002 by mdlogger1
```

# 5.2.5 Kernel Log

## > Status > Kernel Log

The **Kernel Log** displays the kernel log of your router.

OpenWrt   Status   System   VPN   Services   Network   Telephony   MTK   Statistics   Logout

### Kernel Log

```
[6389.795761] -[1]0 swapper[1](name:bc&3) broadcast enter counter cpu: 504, 861, 1590, 1270, success counter cpu: 72, 192, 276, 220, fail counter cpu: 0, 0, 0, 0, interrupt
[6391.054002] -[2]1 proc[1]vdt[1] kick watchdog
[6392.154174] -[1]22325 kvorker[u9_2](ccci1fsm)received MD status response 819d0043
[6392.155387] -[0]1386 ccc_poll[1](ccci1fsm)poll MD status wait done 1500
[6393.353472] -[1]0 swapper[1](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0xc440032c, debug_flag = 0x10206000 0x40000002
[6394.796978] -[1]0 swapper[1](name:bc&3) broadcast enter counter cpu: 492, 818, 1445, 1997, success counter cpu: 102, 153, 160, 243, fail counter cpu: 0, 0, 0, 0, interrupt
[6396.090756] -[2]1 proc[1]vdt[1] kick watchdog
[6398.393452] -[1]0 swapper[1](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_CCIF0_EVENT R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0xc4400340
[6399.797918] -[1]0 swapper[1](name:bc&3) broadcast enter counter cpu: 1126, 814, 1432, 1484, success counter cpu: 152, 187, 194, 203, fail counter cpu: 0, 0, 0, 0, interrupt
[6401.067516] -[2]1 proc[1]vdt[1] kick watchdog
[6402.675975] -[3]0 swapper[2](thread 0) 2022-10-31 08:55:09 849664 UTC: android time: 2022-10-31 08:55:09 849664
[6403.443363] -[2]0 swapper[2](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x84400200, debug_flag =
[6404.000936] -[2]0 swapper[2](name:bc&3) broadcast enter counter cpu: 309, 887, 1473, 1651, success counter cpu: 47, 217, 187, 254, fail counter cpu: 0, 0, 0, 0, interrupt
[6405.276344] -[3]1403 ccc_sys[1](ccci1sys)system message (##### 103 2 80) msg_count:15
[6406.073524] -[2]1 proc[1]vdt[1] kick watchdog
[6407.519528] -[1]22325 kvorker[u9_2](ccci1fsm)received MD status response 819e0043
[6407.517765] -[0]1386 ccc_poll[1](ccci1fsm)poll MD status wait done 1500
[6408.613464] -[3]0 swapper[3](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x84400200, debug_flag = 0x10206000 0x40000002
[6409.019197] -[3]0 swapper[3](name:bc&3) broadcast enter counter cpu: 308, 867, 1799, 790, success counter cpu: 43, 255, 248, 141, fail counter cpu: 0, 0, 0, 0, interrupt
[6411.080014] -[2]1 proc[1]vdt[1] kick watchdog
[6413.613451] -[0]0 swapper[0](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 0, r13 = 0xc440132c, debug_flag =
[6414.802223] -[0]0 swapper[0](name:bc&3) broadcast enter counter cpu: 1507, 918, 1506, 1106, success counter cpu: 184, 178, 210, 184, fail counter cpu: 0, 0, 0, 0, interrupt
[6416.083490] -[2]1 proc[1]vdt[1] kick watchdog
[6418.633398] -[3]0 swapper[3](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0xc440032c, debug_flag =
[6419.803273] -[3]0 swapper[3](name:bc&3) broadcast enter counter cpu: 1519, 853, 1422, 1199, success counter cpu: 155, 195, 168, 188, fail counter cpu: 0, 0, 0, 0, interrupt
[6421.089383] -[2]1 proc[1]vdt[1] kick watchdog
[6421.914149] -[3]1403 ccc_sys[1](ccci1sys)system message (##### 103 2 80) msg_count:15
[6422.075833] -[3]0 swapper[3](thread 0) 2022-10-31 08:55:29 849571 UTC: android time: 2022-10-31 08:55:29 849571
[6422.885183] -[1]22325 kvorker[u9_2](ccci1fsm)received MD status response 819f0043
[6422.886413] -[0]1386 ccc_poll[1](ccci1fsm)poll MD status wait done 1500
[6423.073408] -[0]0 swapper[0](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0xc440132c, debug_flag =
[6424.004754] -[0]0 swapper[0](name:bc&3) broadcast enter counter cpu: 528, 834, 1533, 2191, success counter cpu: 88, 154, 187, 283, fail counter cpu: 0, 0, 0, 0, interrupt
[6426.083384] -[2]1 proc[1]vdt[1] kick watchdog
[6428.143394] -[2]0 swapper[2](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x84400200, debug_flag = 0x10206000 0x40000002
[6429.006060] -[2]0 swapper[2](name:bc&3) broadcast enter counter cpu: 654, 841, 1548, 1488, success counter cpu: 103, 181, 188, 225, fail counter cpu: 0, 0, 0, 0, interrupt
[6431.099775] -[2]1 proc[1]vdt[1] kick watchdog
[6433.784361] -[3]0 swapper[3](name:sp[m]&3)SPM] MCUSYSOFF wake up by R12_NETSYS_WAKEUP R12_SYS_TIMER R12_PCIE_WAKEUP, timer_out = 1, r13 = 0xc440
[6434.807531] -[3]0 swapper[3](name:bc&3) broadcast enter counter cpu: 997, 792, 1578, 1365, success counter cpu: 123, 195, 216, 186, fail counter cpu: 0, 0, 0, 0, interrupt
[6436.103413] -[2]1 proc[1]vdt[1] kick watchdog
[6438.234051] -[0]22325 kvorker[u9_2](ccci1fsm)received MD status response 81a00043
[6438.235194] -[3]1386 ccc_poll[1](ccci1fsm)poll MD status wait done 1500
[6438.553929] -[1]1403 ccc_sys[1](ccci1sys)system message (##### 103 2 80) msg_count:15
```

# 5.2.6 Processes

> Status > Processes

From the **Processes** page, you can view the currently running system processes and their respective status

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StatusSystemVPNServicesNetworkTelephonyMTKStatisticsLogout

### Processes

This list gives an overview over currently running system processes and their status.

PID	Owner	Command	CPU usage (%)	Memory usage (%)
No information available				

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# 5.2.7 Realtime Graphs

> Status > Realtime Graphs

From the **Realtime Graphs** page, you may select to view realtime status graphs by [Load](#), [Traffic](#), or [Connection](#).

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REFRESHING

LoadTrafficConnections

3m

2m

1m

3.00

2.00

1.00

(3 minute window, 3 second interval)

1 Minute Load: 3.07

Average: 2.96

Peak: 3.09

5 Minute Load: 3.08

Average: 2.99

Peak: 3.08

15 Minute Load: 3.08

Average: 2.99

Peak: 3.08

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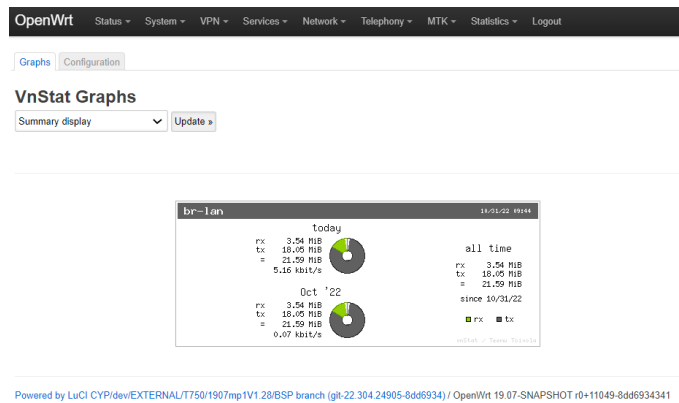
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# 5.2.8 VnStat Traffic Monitor

## > Status > VnStat Traffic Monitor

The VnStat Graphs displays transmit/receive status in pie charts of your network. You may use the drop-down menu to select your display preferences by Summary display, Top 10 display, Hourly traffic, Daily traffic, or Monthly traffic.

You may also click [Configuration](#) to view graphs about your configurations.



In [Configuration](#) you can select your VnStat monitoring by interfaces.

The screenshot shows the OpenWrt VnStat Configuration interface. It has the same navigation bar as the previous screenshot. Below the 'Configuration' tab, the heading is 'VnStat', followed by a description: 'VnStat is a network traffic monitor for Linux that keeps a log of network traffic for the selected interface(s)'. There's a 'Monitor selected interfaces' section with a dropdown menu showing 'br-lan'. Below this, there are two checkboxes: 'Bridge: "br-lan" (lan)' which is checked, and 'Ethernet Adapter: "eth0" (lan)' which is unchecked. At the bottom right, there are three buttons: 'Save & Apply', 'Save', and 'Reset'.

Save & Apply Save Reset

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To save and apply the configurations, click **Save & Apply**.

# 5.3 System

## > System

From the **System Properties**, you can configure the basic aspects of your router, covering

- General Settings
- Logging
- Time Synchronization
- Language and Style
- ZRam Settings

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

REFRESHING

### System

Here you can configure the basic aspects of your device like its hostname or the timezone.

#### System Properties

General Settings | Logging | Time Synchronization | Language and Style | ZRam Settings

Local Time

2022/10/31 17:46:47

Sync with browser

Sync with NTP-Server

Hostname

OpenWrt

Timezone

UTC

Save & Apply

Save

Reset

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General Settings	Configure the local time, hostname and timezone.
Logging	View or configure system log, like buffer size, external server, server port, server protocol, write to file, or output level.
Time Synchronization	Configure NTP settings, such as NTP client, NTP server, and NTP server candidates.
Language and Style	Set the language and style for the configuration interface. The language is Auto and the style is Bootstrap by default.
ZRam Settings	Set ZRam size and compression functions.

To save and apply the configurations, click **Save & Apply**.

# 5.3.1 Administration

## > System > Administration

From the **Administration** page, you may configure your [Router Password](#), [SSH Access](#), and [SSH-Keys](#).

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

Router Password

SSH Access

SSH-Keys

### Router Password

Changes the administrator password for accessing the device

Password

Confirmation

Save

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<b>Router Password</b>	Change the password to access this router. Enter the new password again to confirm.
<b>SSH Access</b>	<p>Configure Secure Shell access policies (Dropbear Instance)</p> <p>Dropbear offers SSH network shell access and an integrated SCP server.</p> <p>You may configure the interface, port, password authentication, gateway port, or root login with password.</p> <p>You may click Add Instance to set a new SSH Access instance.</p>
<b>SSH-Keys</b>	<p>Configure Secure Shell credential keys. For instance, you may set public key that allows for the passwordless SSH logins with a higher security.</p> <p>You may use an OpenSSH compatible public key.</p>

To save and apply the configurations, click **Save & Apply**.

# 5.3.2 Software

## > System > Software

The **Software** page displays status of free space in your router and provides options to configure the software functions of your network.

**Free space:** the available space in your device memory

**Filter:** input packet information here to filter

**Download and install package:** enter the package name or URL to download and install package

**Actions:** you may click

- **Update lists** to update the package list on the screen
- **Upload package** to upload the package you have downloaded. You may browse your device to select a file to be uploaded.
- **Configure opkg** to configure your opkg package manager. It lists the configuration files used by OPKG. Use opkg.conf for global settings and customfeeds.conf for custom repository entries.

You may view your package list sorted by [Available](#), [Installed](#), or [Updates](#).

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Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

### Software

Free space: 

96% (27.8 MB)

Filter:  
Type to filter...

Clear

Download and install package:  
Package name or URL...

OK

Actions:  

Update lists...

Upload Package...

Configure opkg...

AvailableInstalledUpdates

«

No packages

»

Package name	Version	Size (.ipk)	Description
No information available			

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# 5.3.3 Startup

## > System > Startup

The **Startup** page allows you to configure [Initscripts](#) or [Local Startup](#).

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### Startup

InitscriptsLocal Startup

You can enable or disable installed init scripts here. Changes will applied after a device reboot.  
**Warning: If you disable essential init scripts like "network", your device might become inaccessible!**

Start priority	Init script				
00	1nvram_daemon	Enabled	Start	Restart	Stop
00	1restore	Enabled	Start	Restart	Stop
00	3ccci_mdinit	Enabled	Start	Restart	Stop
00	0mount_all	Enabled	Start	Restart	Stop
00	unngd	Enabled	Start	Restart	Stop
00	2ccci_fed	Enabled	Start	Restart	Stop
00	sysfixtime	Enabled	Start	Restart	Stop
05	set_wifi_default_config	Enabled	Start	Restart	Stop
10	boot	Enabled	Start	Restart	Stop
10	system	Enabled	Start	Restart	Stop
11	sysctl	Enabled	Start	Restart	Stop
12	log	Enabled	Start	Restart	Stop
12	rpcd	Enabled	Start	Restart	Stop
13	mtk_mem	Enabled	Start	Restart	Stop
15	firmware.sh	Enabled	Start	Restart	Stop
19	dropbear	Enabled	Start	Restart	Stop
19	firewall	Enabled	Start	Restart	Stop
20	network	Enabled	Start	Restart	Stop

### Initscript

### Local Startup

Enable or disable init scripts. To apply changes, restart the router.

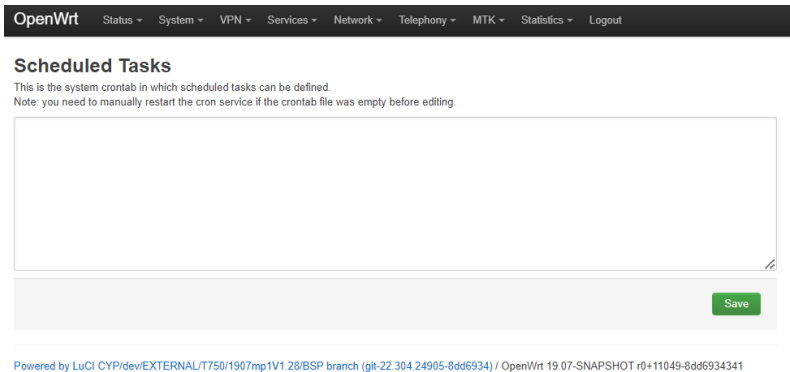
This page allows you to insert your own custom commands. Your inserted commands will be executed at the end of the system booting process.



# 5.3.4 Scheduled Tasks

## > System > Scheduled Tasks

From the **Scheduled Tasks**, you can define your scheduled tasks.



To save scheduled task definition, click **Save**.

# 5.3.5 LED Configuration

> System > LED Configuration

From the **LED Configuration** page, you can customize the behaviors of your router's LED behaviors (if it is customizable for your device). To define behaviors for your device's LED, click **Add LED action**.

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## LED Configuration

Customizes the behaviour of the device LEDs if possible.

Name	LED Name	Default state	Trigger
This section contains no values yet			

Add LED action

Save & Apply

Save

Reset

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To save and apply the configurations, click **Save & Apply**.

# 5.3.6 Backup / Flash Firmware

## > System > Backup / Flash Firmware

From the **Flash Operation** page, you can generate a backup of your configurations or restore your previously saved configurations.

If necessary, you may reset your router's firmware to initial state.

To upgrade your firmware, you may flash new firmware image here.

**Note:** the mtddblock setting is only for professionals in this field.

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### Flash operations

ActionsConfiguration

#### Backup

Click "Generate archive" to download a tar archive of the current configuration files.

Download backup

Generate archive

#### Restore

To restore configuration files, you can upload a previously generated backup archive here. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).

Reset to defaults

Perform reset

Restore backup

Upload archive...

Custom files (certificates, scripts) may remain on the system. To prevent this, perform a factory-reset first.

#### Save mtddblock contents

Click "Save mtddblock" to download specified mtddblock file. (NOTE: THIS FEATURE IS FOR PROFESSIONALS!)

Choose mtddblock

Download mtddblock

Save mtddblock

#### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware.

Image

Flash image.

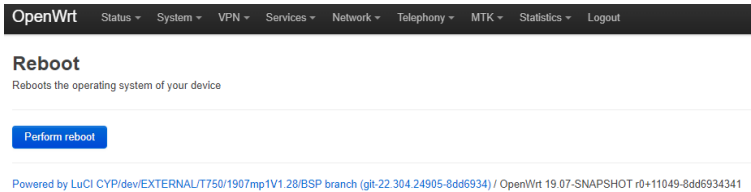
<b>Backup</b>	Click "Generate archive" to generate a backup archive of your current configurations
<b>Restore</b>	Click "Restore archive" to restore your previously generated backup archive.  If you wish to reset your router's firmware to initial state, click "Perform reset".  Note: This reset function is not a factory reset and some custom files may remain on the system after clicking "Perform reset" here. To remove all the files and data, you need to perform a factory reset.
<b>Save mtblock contents</b>	Click "Save mtblock" to download specified mtblock files.  Note: this feature is only for professional familiar with mtblock.
<b>Flash new firmware image</b>	Click "Flash image" to upload a new image to replace the currently running firmware.

## 5.3.7 Reboot

> **System** > **Reboot**

From the **Reboot** page, you can reboot the operating system of your router.

To perform reboot, simply click [Perform reboot](#).



# 5.3.8 Log Control

> System > Backup / Log Control

From the **Log Control** page, you can configure the log properties e.g. maximum record file number, log start/stop control ...etc

## Log Control

Here you can configure the log properties e.g. maximum record file number, log start/stop control ...etc .

### Advanced System Properties

Start or Stop AP log

stop ▾

Start or Stop GPS log

stop ▾

Start or Stop tcpdump

stop ▾

Start or Stop MD log

stop ▾

Log store path

/data/debuglog

Enable sensitive log in AP and MD side

disable ▾

Auto start logging or not

stop ▾

AP log saving mode

create new file ▾

AP log maximum saving files per time

1000

☒ maximum file count must be larger than 2

AP boot log maximum keeping numbers

5

☒ maximum numbers count must be larger than 5

MD log saving mode

USB ▾

Enable Location log in MD

disable ▾

MD dumpback mode

normal dump ▾

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Enable Location log in MD

disable ▾

MD dumpback mode

normal dump ▾

MD log level

Debug ▾

MD log file size

20

unit:MB and file size should larger than 20MB

The maximum MD log size

200

It will replace oldest log when reaching maximum size

MD memory dump wait time

15

If you save & apply new value, then a reboot will be required

MD Log IP Address

0.0.0.0

Specify MD Log IP address

MD Log Port

10001

Specify MD Log Port

tcpdump snaplen

128

Specify the number of bytes to be captured by tcpdump

Save & ApplySaveReset

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To save and apply the configurations, click **Save & Apply**.

# 5.4 VPN

## > VPN

The **VPN** menu shows available options to set the VPN functions of your router, including

- OpenVPN
- VPN Bypass

## 5.4.1 OpenVPN

### > VPN > OpenVPN

When you click **OpenVPN**, you will see the list of configured OpenVPN instances and their current states. You may enable, start/stop, edit or delete for the OpenVPN instances on the list.

In the **Template based Configurations**, you may input an instance name and/or select a template to add to your OpenVPN instance.

In the **OVPN configuration file upload**, you may input an instance name and/or browse your device to upload an OVPN configuration file.

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### OpenVPN

OpenVPN instances

Below is a list of configured OpenVPN instances and their current state

Name	Enabled	Started	Start/Stop	Port	Protocol		
custom_config	<input type="checkbox"/>	no	<a href="#">start</a>	-	-	<a href="#">Edit</a>	<a href="#">Delete</a>
sample_server	<input type="checkbox"/>	no	<a href="#">start</a>	1194	udp	<a href="#">Edit</a>	<a href="#">Delete</a>
sample_client	<input type="checkbox"/>	no	<a href="#">start</a>	-	udp	<a href="#">Edit</a>	<a href="#">Delete</a>

#### Template based configuration

[Add](#)

#### OVPN configuration file upload

[選擇檔案](#) 未選擇任何檔案

[Upload](#)

[Save & Apply](#)[Save](#)[Reset](#)

# 5.4.2 VPN Bypass

> VPN > VPN Bypass

From the **VPN Bypass Settings**, you can view and configure your VPN service status, and set VPN bypass rules, such as Local Ports to Bypass, Remote Port to Bypass, Local IP Address to Bypass, Remote IP Address to Bypass, and Domain to Bypass.

Once you click [Enable](#), you may tap [Start](#), [Restart](#), or [Stop](#) for your VPN Bypass rules. To disable the rules, click [Disable](#).

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## VPN Bypass Settings

Service Status [vpnbypass 1.3.1-7]

Service StatusStopped (disabled)

Service Control

StartRestartStopEnableDisable

### VPN Bypass Rules

Local Ports to Bypass

32400

+

Local ports to trigger VPN Bypass

Remote Ports to Bypass

+

Remote ports to trigger VPN Bypass

Local IP Addresses to Bypass

192.168.1.81/29

+

Local IP addresses or subnets with direct internet access (outside of the VPN tunnel)

Remote IP Addresses to Bypass

25.0.0.0/8

+

Remote IP addresses or subnets which will be accessed directly (outside of the VPN tunnel)

Domains to Bypass

+

Domains to be accessed directly (outside of the VPN tunnel), see [README](#) for syntax

Save & ApplySaveReset

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To save and apply the configurations, click **Save & Apply**.



# 5.5 Services

## > Services

The **Services** menu provides available options to configure Dynamic DNS and uHTTPd.

### 5.5.1 Dynamic DNS

#### > Services > Dynamic DNS

**Dynamic DNS** allows your router to be reached by a fixed hostname while having a dynamically changing IP address. You may input Hints to optimize your device to run DNS scripts.

Under the Overview, you can view the current status of the list of configured Dynamic DNS. You may enable, edit or delete a DDNS.

If you need to send updates for IPv4 and IPv6, you must define two separate configurations, such as "myddns\_ipv4" and "myddns\_ipv6".

You may [Edit](#) or [Delete](#) your current DNS configurations or input your own and click [Add](#).

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REFRESH

### Dynamic DNS

Dynamic DNS allows that your router can be reached with a fixed hostname while having a dynamically changing IP address.  
OpenWrt Wiki: [DDNS Client Documentation](#) --- [DDNS Client Configuration](#)

#### Hints

[Show more](#) Follow this link  
You will find more hints to optimize your system to run DDNS scripts with all options

#### Overview

Below is a list of configured DDNS configurations and their current state.  
If you want to send updates for IPv4 and IPv6 you need to define two separate Configurations i.e. 'myddns\_ipv4' and 'myddns\_ipv6'  
[To change global settings click here](#)

Name	Lookup Hostname Registered IP	Enabled	Last Update Next Update	Process ID Start / Stop
myddns_ipv4	yourhost.example.com	<input type="checkbox"/>	Never Disabled	<div>-----</div> <div>EditDelete</div>
myddns_ipv6	yourhost.example.com	<input type="checkbox"/>	Never Disabled	<div>-----</div> <div>EditDelete</div>

Add

Save & Apply

Save

Reset

To save and apply the configurations, click **Save & Apply**.

# 5.5.2 uHTTpd

> **Services** > **uHTTpd**

When you click **uHTTpd**, you will be able to configure properties of the HTTP server. You may configure the [General Settings](#), [Full Web Server Settings](#), or [Advanced Settings](#).

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uHTTpd

A lightweight single-threaded HTTP(S) server

Delete

MAIN

General SettingsFull Web Server SettingsAdvanced Settings

HTTP listeners (address port)

0.0.0.0:80

[\*]:80

Bind to specific interface port (by specifying interface address)

HTTPS listener (address port)

0.0.0.0:443

[\*]:443

Bind to specific interface port (by specifying interface address)

Redirect all HTTP to HTTPS

☒

Ignore private IPs on public interface

☒

Prevent access from private (RFC1918) IPs on an interface if it has an public IP address

HTTPS Certificate (DER Encoded)

/etc/uhttpd.crt (931 B)

HTTPS Private Key (DER Encoded)

/etc/uhttpd.key (1.70 KB)

Remove old certificate and key

Remove old certificate and key

uHTTpd will generate a new self-signed certificate using the configuration shown below.

Remove configuration for certificate and key

Remove configuration for certificate and key

This permanently deletes the cert, key, and configuration to use same.

Add

uHTTpd Self-signed Certificate Parameters

Valid for # of Days

730

Length of key in bits

2048

## General Settings

Configure general properties of HTTP server.

## Full Web Server Settings

Configure additional functions primarily geared to serving more than the web UI

## Advanced Settings

Configure the settings that are not normally required, and may affect the serving the Web UI.

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# 5.6 Network

## > Network

The **Network** menu provides available options to configure multiple aspects of your network functions.

### 5.6.1 Interfaces

#### > Network > Interfaces

The **Interfaces** page displays general information and current states of the available network interfaces of your router.

You may configure the interfaces using Restart, Stop, [Edit](#), [Delete](#) or [Add new interfaces](#).

The [Global network option](#) tab allows you to view the global network option of your router, for example, IPv6 ULA-Prefix.

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REFRESHING

Interfaces

Global network options

Interfaces

WAN

eth1

Protocol: DHCP client

RX: 0 B (0 Pkts.)

TX: 0 B (0 Pkts.)

Error: Network device is not present


Restart

Stop

Edit

Delete

WAN6

eth1

Protocol: DHCPv6 client

RX: 0 B (0 Pkts.)

TX: 0 B (0 Pkts.)

Error: Network device is not present


Restart

Stop

Edit

Delete

LAN

br-lan

Protocol: Static address

Uptime: 6h 45m 31s

MAC: 98 C8 54 E5 A3 0E

RX: 6 59 MB (53657 Pkts.)

TX: 30.04 MB (49401 Pkts.)

IPv4: 192.168.0.1/24

Restart

Stop

Edit

Delete

Add new interface...

Save & Apply ▾

Save

Reset

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To save and apply the configurations, click **Save & Apply**.

# 5.6.2 DHCP and DNS

## > Network > DHCP and DNS

The **DHCP and DNS** page combines configurations for both DHCP server and DNS forwarder.

You may configure your server settings in [General Settings](#), [Resolve and Host files](#), [TFTP Settings](#), [Advanced Settings](#) and [Static Lease](#).

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REFRESHING

### DHCP and DNS

Dnsmasq is a combined DHCP-Server and DNS-Forwarder for NAT firewalls

Server Settings

General SettingsResolve and Hosts FilesTFTP SettingsAdvanced SettingsStatic Leases

Domain required

☒

Don't forward DNS-Requests without DNS-Name

Authoritative

☒

This is the only DHCP in the local network

Local server

Local domain specification. Names matching this domain are never forwarded and are resolved from DHCP or hosts files only

Local domain

Local domain suffix appended to DHCP names and hosts file entries

Log queries

☐

Write received DNS requests to syslog

DNS forwardings

+

List of DNS servers to forward requests to

Rebind protection

☒

Discard upstream RFC1918 responses

Allow localhost

☒

Allow upstream responses in the 127.0.0.0/8 range, e.g. for RBL services

Domain whitelist

+

List of domains to allow RFC1918 responses for

Local Service Only

☒

Limit DNS service to subnets interfaces on which we are serving DNS.

Non-wildcard

☒

Bind dynamically to interfaces rather than wildcard address (recommended as linux default)

Listen Interfaces

+

Limit listening to these interfaces, and loopback.

Exclude interfaces

+

<b>General Settings</b>	Configure general DHCP and DNS properties, such as domain, authoritative rule, DNS forwarding, allowing localhost, domain whitelist, local service and interfaces.
<b>Resolve and Host Files</b>	Set rules for resolve/host files, such as using /etc/ethers configuration file, leasefile, and resolve files.
<b>TFTP Settings</b>	Check the box to enable TFTP server
<b>Advanced Settings</b>	This page provides additional setting options including Suppress Logging, filter, queries, cache, DNS server port, DHCP lease, and other related settings. Check or uncheck the boxes to enable/disable their respective functions.
<b>Static Lease</b>	Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients. They are also required for non-dynamic interface configurations where only hosts with a corresponding lease are served. Use the <b>Add</b> Button to add a new lease entry. The MAC-Address identifies the host, the IPv4-Address specifies the fixed address to use, and the Hostname is assigned as a symbolic name to the requesting host. The optional Lease time can be used to set non-standard host-specific lease time, e.g. 12h, 3d or infinite.

To save and apply the configurations, click **Save & Apply**.

## 5.6.3 Hostnames

> **Network > Hostnames**

From **Hostnames** page, you can configure your host entries, such as hostnames and IP address.

Click **Add** to add a new host entry.

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### Hostnames

Host entries

Hostname	IP address
This section contains no values yet	

Add

Save & Apply

Save

Reset

To save and apply the configurations, click **Save & Apply**.

# 5.6.4 Static Routes

## > Network > Static Routes

From **Static Routes** page, you can view the information of the currently running routes that specify over which interface and gateway a certain host or network can be reached.

You can view the current routes by [Static IPv4 Routes](#) or [Static IPv6 Routes](#).

Click **Add** to add a new route.

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### Routes

Routes specify over which interface and gateway a certain host or network can be reached.

Static IPv4 RoutesStatic IPv6 Routes

#### Static IPv4 Routes

Interface	Target	IPv4.Netmask	IPv4.Gateway	Metric	On-Link route
	Host-IP or Network	if target is a network			

This section contains no values yet

Add

Save & ApplySaveReset

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To save and apply the configurations, click **Save & Apply**.

# 5.6.5 Firewall

> Network > Firewall

From **Firewall** page, you can configure multiple functional aspects of the firewall of your router, covering [General Settings](#), [Port Forwards](#), [Traffic Rules](#), [NAT Rules](#), and [Custom Rules](#).

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[General Settings](#)[Port Forwards](#)[Traffic Rules](#)[NAT Rules](#)[Custom Rules](#)

## Firewall - Zone Settings

The firewall creates zones over your network interfaces to control network traffic flow.

### General Settings

Enable SYN-flood protection ☒

Drop invalid packets ☐

Input 

accept

Output 

accept

Forward 

reject

### Zones

Zone → Forwards	Input	Output	Forward	Masquerading	
<div>lan → wan</div>	<div>accept</div>	<div>accept</div>	<div>accept</div>	<input type="checkbox"/>	<div><div></div>EditDelete</div>
<div>wan → REJECT</div>	<div>reject</div>	<div>accept</div>	<div>reject</div>	<input checked="" type="checkbox"/>	<div><div></div>EditDelete</div>

Add

Save & Apply ▾

Save

Reset

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## General Settings

The firewall creates zones over your network interfaces to control network traffic flow. Configure zone settings for the firewall fuction of your router. Click [Add](#) to add a new zone.

## Port Forwards

Configure your port forwarding. Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN. Click [Add](#) to add a new rule.

## Traffic Rules

Define policies for packets traveling between different zones. For example, reject traffic between certain hosts or to open WAN ports on the router. You may Reorder, [Edit](#), or [Delete](#) for each rule.

Configure NAT rules of your router. NAT rules allow fine grained control over the source IP to use for outbound or forwarded traffic. Click [Add](#) to add a new rule.

## NAT Rules

## Custom Rules

Custom rules allow you to execute arbitrary IP table commands which are not otherwise covered by the firewall framework. The commands you insert will be executed after restarting the firewall.

# 5.6.6 Diagnostics

> Network > Diagnostics

The **Diagnostics** provides Ping and Traceroute diagnostic tools for both IPv4 and IPv6 protocols. You may perform "nslookup" to diagnose DNS.

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### Network Utilities

IPv4 Ping ▾

IPv4 Traceroute ▾

Nslookup

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# 5.6.7 Configure Diagnostics

> Network > Configure Diagnostics

The **Configure Diagnostics** provides setting menu for you to configure network diagnostics, such as device scan and ping test. The diagnostics available here depend on what diagnostic software you have installed in your router.

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

### Diagnostics

With this menu you can configure network diagnostics, such as network device scans and ping tests.

The diagnostics available under this menu depend on what modules you have installed on your device.

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# 5.6.8 QoS

> Network > QoS

**QoS (Quality of Service)** allows you to prioritize network traffic selected by addresses, ports or services.

You may configure properties under Interfaces, WAN and Classification Rules to prioritize network traffics.

OpenWrt

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Quality of Service

With QoS you can prioritize network traffic selected by addresses, ports or services.

Interfaces

Delete

WAN

Enable

☐

Classification group

default

Calculate overhead

☐

Half-duplex

☐

Download speed (kbit/s)

1024

Upload speed (kbit/s)

128

Add

Classification Rules

Target	Source host	Destination host	Protocol	Ports	Number of bytes	Comment			
p	all	all	all	22.53		ssh, dns	Up	Down	Delete
n	all	all	TCP	20.21.25.00.110.443.993.995		ftp, smtp	Up	Down	Delete
e	all	all	all	5190		AOL, ICQ	Up	Down	Delete

Add

Save & Apply

Save

Reset

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To save and apply the configurations, click **Save & Apply**.

# 5.6.9 IP Security

> Network > IP Security

The **IP Security** page displays values of IP security settings of your router.

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout

REFRESHING

### IP Security

*This section contains no values yet*

*This section contains no values yet*

*This section contains no values yet*

*This section contains no values yet*

btn value

Save & Apply

Save

Reset

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# 5.7 Telephony

## > Telephony

The **Telephony** menu provides configuration tools for your network telephony.

## 5.7.1 Overview

### > Telephony > Overview

From **Telephony Overview** page, you can view the status of your telephony, including SIM, Network, IMS and Call Control, and configure some properties of the telephony networks.

OpenWrt

Status

System

VPN

Services

Network

Telephony

MTK

Statistics

Logout

### Telephony Overview

#### SIM

Status

MIPC\_SIM\_STATUS\_COMPLETE\_READY

PIN

Unlock

#### Network

Radio Status

Get SW radio state MIPC\_NW\_RADIO\_STATE\_ON

On

Off

IAAPN:

Reset Radio with new IAAPN

Rat Mode

Current: 4/5G

4G only(3)

5G only(15)

4/5G(19)

Rat Mode (manual input)

Set

Attached Status

Refer to: <https://wiki.mediatek-inc/display/WSDACFAF12/Preferred+Network+Type>  
MIPC\_NW\_REGISTER\_STATE\_NOT\_REGISTERED

#### IMS

IMS config

Current: Off

On

Off

Registration state

Unregistered

#### Call Control

Call Status: (0:Active, 1:Held, 2:Dialing, 3:Alerting, 4:Incoming, 5:Waiting)

Call Status

Key detect and dial

DTMF

MO

Dial

MT

Accept ringing

Accept waiting

Speech Status

numid=1,iface=MIXER,name=Speech\_on', type=ENUMERATED,access=rw-----,values=1,items=2 ; item #0 'Off', item #1 'On'; values=0

Speech on

Speech off

PlayTone

Mute

UnMute

Speech

Set Volume(1-7)

In call operation

Swap

Merge

Hangup

Hangup foreground

Hangup all

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# 5.8 MTK

## > MTK

The **MTK** menu provides options to configure device-level or processor-level functions of your router.

## 5.8.1 WiFi Configuration


### > MTK > WiFi Configuration

From the **WiFi Configuration** page, you can view the wireless status and perform device-level or processor level configurations of your router.

OpenWrt

Status ▾System ▾VPN ▾Services ▾Network ▾Telephony ▾MTK ▾Statistics ▾Logout


Wireless Overview

**MT7915D**  
Driver version: 7.4.0.0


Config

**MT7915D.1.1**  
Work mode: AP

ReloadConfigAdd

**Interface: ra0 | Type: AP | SSID: Verizon\_ZN466H\_2G | Channel: 6**  
BSSID: 98:c8:54:e5:a5:7a | Mode: HE\_2G mode


DisableConfigRemove

**Interface: apcli0 | Type: STA | Status: Disconnected**  
Wireless is disabled or not associated


EnableConnectConfig

**MT7915D.1.2**  
Work mode: AP

ReloadConfigAdd

**Interface: rax0 | Type: AP | SSID: Verizon\_ZN466H\_5G | Channel: 36**  
BSSID: 98:c8:54:e5:a4:44 | Mode: HE\_5G mode

DisableConfigRemove

**Interface: apcli0 | Type: STA | Status: Disconnected**  
Wireless is disabled or not associated

EnableConnectConfig

# 5.8.2 Web Console

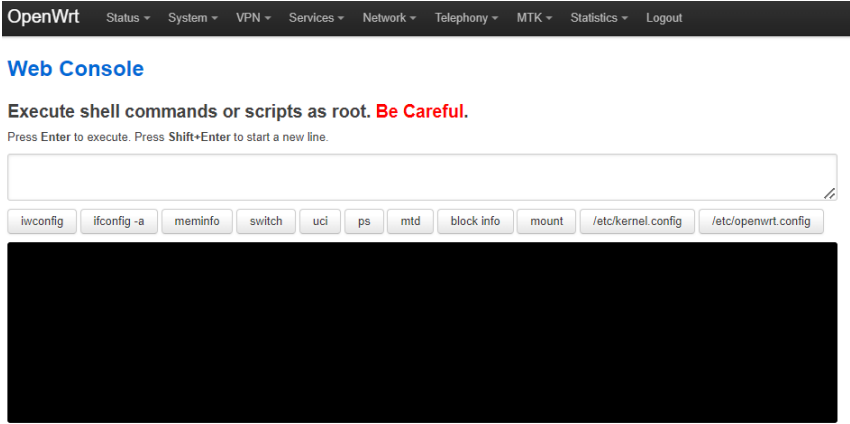
## > MTK > Web Console

From the **Web Console** page, you can execute shell commands or scripts as root.

Press Enter to execute.

Press Shift + Enter to start a new line.

Note: Be careful with this setting. This setting is only for professionals.

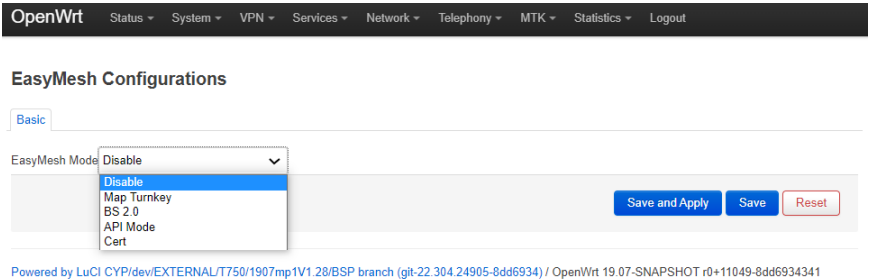


# 5.8.3 EasyMess

> MTK > EasyMesh

The **EasyMesh** page, you can set your Wi-Fi EasyMesh modes. The available modes are

- Disable
- Map Turnkey
- BS 2.0
- API Mode
- Cert



To save and apply the configurations, click **Save & Apply**.

# 5.9 Statistics

## > Statistics

The **Statistics** menu uses collected data to present graphs and diagrams.

## 5.9.1 Graphs

### > Statistics > Graphs

From the **Graph** page, you can select **Processor**, **Interfaces**, **Wireless**, **System Load**, or **Memory** to display their respective status graphs or diagrams.



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# 5.9.2 Setup

## > Statistics > Setup

From the **Setup** page, you can view collected setting status and configure [General plugins](#), [Network plugins](#), and [Output plugins](#).

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General pluginsNetwork pluginsOutput plugins

### Collected Settings

Collectd is a small daemon for collecting data from various sources through different plugins. On this page you can change general settings for the collectd daemon.

Base Directory

/var/run/collectd

Directory for sub-configurations

/etc/collectd/conf.d

Directory for collectd plugins

/usr/lib/collectd

Used PID file

/var/run/collectd.pid

Datasets definition file

/usr/share/collectd/types.db

Data collection interval

30

Seconds

Number of threads for data collection

2

Try to lookup fully qualified hostname

☐

-- Additional Field --

Add

Save & ApplySaveReset

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- General plugins

Click it to perform plugin configurations to collect statistic data. You may choose [Processor](#), [System Load](#), or [Memory](#) to configure their respective plugins.
- Network plugins

Click it to monitor plugins statistics collected by [Interfaces](#) and [Wireless](#). You can click [Interfaces](#) or [Wireless](#) to configure their respective plugins.
- Output plugins

Click it to access [Network Plugin Configuration](#) or [RRDTool Plugin Configuration](#).  
The Network Plugin Configuration allows you configure the Listener Interfaces and Server Interfaces.  
The RRDTool plugin stores the collected data in RRD database files, which function as the foundation of the diagrams.



# 6. Technical Specifications

Frequency bands	5G NR: n2, n5, n48, n66, n77 4G LTE: B2, B5, B13, B48, B66
Memory	RAM: 2GB ROM: 16GB
Wi-Fi	Wi-Fi 6 (802.11 a/b/g/n/ac/ax), 2.4/5.0GHz, 2x2 MIMO
Network	3GPP R15 5G NR 100MHz, NSA/SA, 4x4 MIMO on n2, 5, 48, 66, 77 - n77 PC1.5 supported at launch 4G LTE DL Cat 15 3CA, 4x4 MIMO
LED	Tri-color LED x 1
WPS	WPS button x 1
Max. connected devices	Up to 128 devices (up to 100 when Band Steering is activated)
LAN	1000BASE-T x 1
Reset	Reset pin hole x 1
Power	DC power jack x 1
SIM	eSIM x 1
USB	USB Type-C x 1 (for host mode)
Dimensions	94 x 94 x 180 mm
Weight	570g
Accessories	AC Power Adapter <ul style="list-style-type: none"><li>• Input: 100 - 240V</li><li>• Output: 12V/2.0A</li></ul>
OS	CRSP
Built-in features	WebUI, Smartphone API, OMA-DM

# 7. Troubleshooting

If you are experiencing some issues in using the router, try here first for some quick fixes to common problems.

## Dropped Wi-Fi connection

Wi-Fi connections can occasionally drop for any number of reasons, such as interference or system updates.

Try to ensure the space between your router and Wi-Fi devices is as clear as possible and make sure you're not moving too far away from your router.

Check that your router has a good cellular connection and that your Wi-Fi device isn't trying to connect to any other saved Wi-Fi networks.

## Can't connect to Wi-Fi

If your router's Wi-Fi doesn't appear when scanning available networks on your device, or if you can't make a connection, try switching both your router and Wi-Fi device off and back on again, and move closer to your router. If your router has a good cellular connection and you still can't establish a Wi-Fi connection, try a factory reset.

To perform a factory reset and return the Home Internet Router to default settings, use a pin to insert into the Reset Hole for a few seconds.

## Can't login to the Web UI

If you can't access the Web UI, it might be an issue with your device or computer's proxy or IP address settings. Make sure that proxy settings are disabled and that your device or computer can be allocated an IP address on the network by the router's DHCP server. You'll need to check the support for your device or computer's operating system e.g. Windows or Mac OS, for detailed instructions on how to do this.

## Where can I get more help?

If you need more help about setting up your router, please visit <https://support.tracfone.com/>

# FCC Declaration of Conformance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC RF Radiation Exposure Statement (SAR)

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

## Safety Warnings

### Adapter

- Do not use any other power adaptor except the one that accompanies this unit or a power adaptor identified in the list below.
- Use of another adapter could result in damage to the unit.
- The following power adaptor is qualified for use with this Tracfone Home Internet Router: (specified the adapter specifications, brand, make, type and other restrictions)

### Caution

Ensure to connect the power cord of power adapter to a socket-outlet with grounding connection.

# Safety and Compliance

## Read before Use

We recommend you read the following sections thoroughly before use. Tracfone is not liable for malfunctions or damages resulted from misuse of the handset.

## Safety Precaution

Pay full attention to the following safety precautions.

- Use the chargers, cables or accessories approved by the device manufacturer.
- Do NOT disassemble or modify the device. Doing so voids the warranty.
- Prevent wetness from penetrating internal parts. Using the device in wet or damp environment (for instance, charging it in a wet environment like bathtub or bathroom) may result in malfunctions.
- Do NOT use this device near source of heat or fire, such as oven, microwave, stove, or heater.
- Keep your device away from cooking appliances.
- Do NOT place the device in places with heated atmosphere (dryer, sauna, hot water).
- Do NOT use the device and disconnect all cables at places with fire or explosion risks.
- Avoid strong physical impact (heavy objects or excessive force).
- Keep your device away from liquid or conductive materials.
- Do NOT charge the device when either the device, the adapter, or the cable is wet. It may cause short-circuit.
- Power off the device when near medical equipment or high-precision control systems to avoid potential interference.
- Charge with specified voltage only.
- Place the device on a flat, stable surface for optimal use.
- Keep the device and adapter away from children and pets.
- The device must be disposed of in accordance with the locally applicable environmental regulations.
- Keep the device away from magnetic items such as magnetic strip cards or items that generate strong electronic or magnetic fields, such as a microwave.
- Do NOT store the device in an overheated environment.
- Do NOT use the device when it is overheated.
- Disconnect all the cable connections when the device is not in use.
- Place the device in places with good signal strength.
- Make sure the adapter you use with the device meets the approved standards and specifications.

## Disposal and Recycling

Do not dispose of the phone in a household garbage bin.

Products with this label must be taken to specific collection points at the end of their life.

You can learn more about how to recycle your mobile device by visiting the CTIA website at

[www.ctia.org/news/how-to-recycle-your-mobile-device](http://www.ctia.org/news/how-to-recycle-your-mobile-device)



## Maintenance & Care

- Avoid extreme temperature or direct sunlight
- Clean handset with soft, dry cloth. Do NOT use alcohol solvent (color may fade)
- Warranty does not cover malfunctions caused by misuse.
- Stop all the applications and shut down the device before cleaning it.
- Keep the device and its accessories dry at all times.
- If anomaly occurs, contact Tracfone Support immediately.
- When storing the device, do NOT store it in a container with dampness or under extended heat.
- Avoid dropping the device or strong physical impact at all times.

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## Changes

The functions of the product and associated peripherals or accessories are described in this document are based on the current hardware, software and/or local network conditions at the time of writing, and thus may vary due to conditions set by local network service providers or carriers. Therefore, all information described herein is subject to change without prior notice.