



**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**

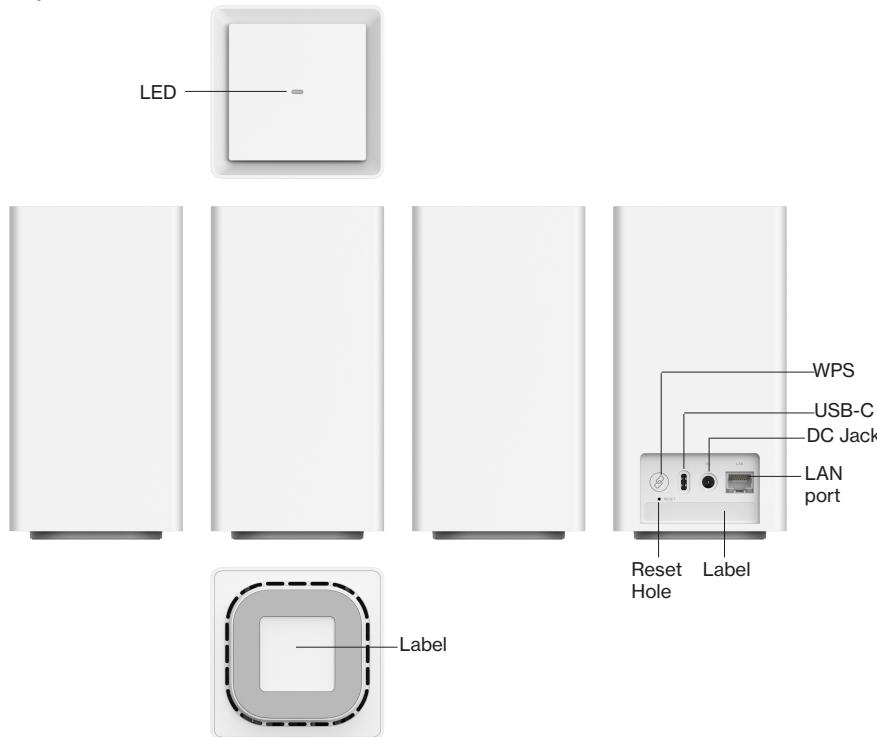


## 2. Introducing Your Home Internet Router

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
<b>LED</b>	Indicate the status of power and connectivity, as well as WPS connectivity.
<b>LAN port</b>	One RJ-45 GbE LAN port for connection with external device through Ethernet cable (not included).
<b>USB-C 2.0</b>	USB Type-C 2.0 port
<b>DC IN</b>	DC Power In - The DC power jack that connects the 5G Internet Router to a power outlet.
<b>WPS button</b>	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.
<b>Reset pin hole</b>	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.
<b>Label</b>	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

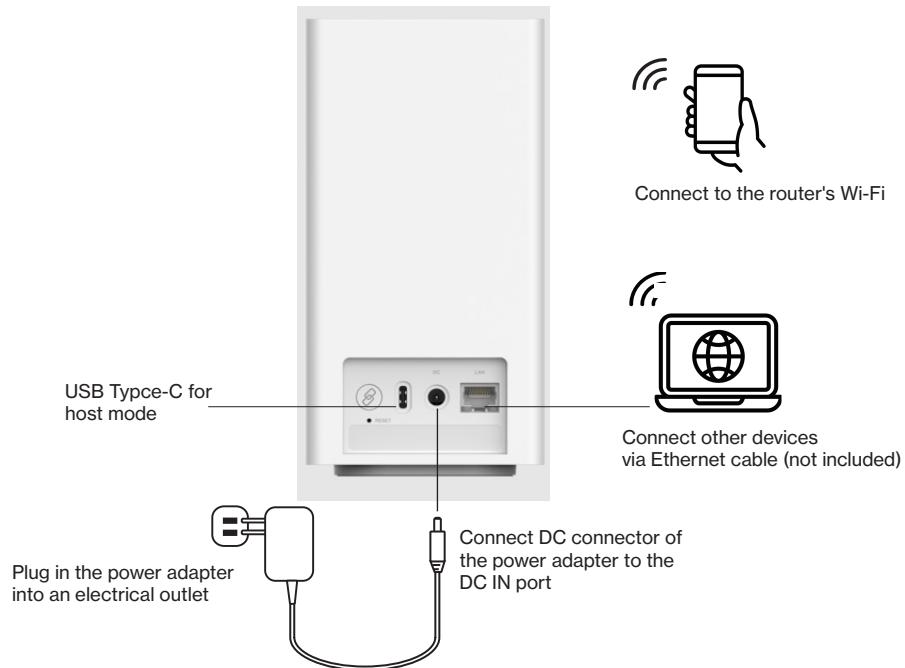
### 3.3 Setting Up

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

Password

Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1 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.

## 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> in 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.

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

Password

Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch (glib2-22.257.33231-0e8a865) / 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

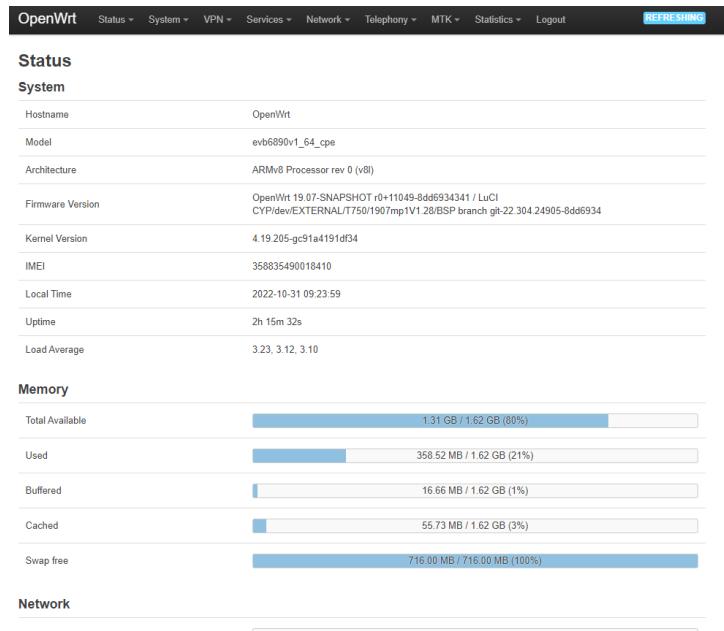
You can configure functions of your router on the Web UI. To access the Web UI, open a web browser and enter the router's admin address **http://192.168.0.1** in the address bar.

## 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 .



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

## Introducing the Task Bar

<b>Status</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• Overview</li><li>• Firewall</li><li>• Routes</li><li>• System Log</li><li>• Kernel Log</li><li>• Processes</li><li>• Realtime Graphs</li><li>• VnStat Traffic Monitor</li></ul>
<b>System</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• System</li><li>• Administration</li><li>• Software</li><li>• Startup</li><li>• Scheduled Tasks</li><li>• LED Configuration</li><li>• Back up / Flash Firmware</li><li>• Reboot</li><li>• Log Control</li></ul>
<b>VPN</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• OpenVPN</li><li>• VPN Bypass</li></ul>
<b>Services</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• Dynamic DNS</li><li>• uHTTPd</li></ul>
<b>Network</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• Interfaces</li><li>• DHCP and DNS</li><li>• Hostnames</li><li>• Static Routes</li><li>• Firewall</li><li>• Diagnostics</li><li>• Configure Diagnostics</li><li>• QoS</li><li>• IP Security</li></ul>
<b>Telephony</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• Overview</li></ul>
<b>MTK</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• WiFi configuration</li><li>• Web Console</li><li>• EasyMesh</li></ul>
<b>Statistics</b>	Use the drop-down arrow  to access the following options: <ul style="list-style-type: none"><li>• Graphs</li><li>• Setup</li></ul>
<b>Logout</b>	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 [REFRESHING](#)

### Status

#### System

Hostname	OpenWrt
Model	eVB6890v1_64_cpe
Architecture	ARMv8 Processor rev 0 (v8)
Firmware Version	OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341 / LuCI CY19/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch git-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 style="width: 80%;">1.31 GB / 1.62 GB (80%)</div>
Used	<div style="width: 21%;">358.52 MB / 1.62 GB (21%)</div>
Buffered	<div style="width: 1%;">16.67 MB / 1.62 GB (1%)</div>
Cached	<div style="width: 3%;">55.73 MB / 1.62 GB (3%)</div>
Swap free	<div style="width: 100%;">716.00 MB / 716.00 MB (100%)</div>

#### Network

Active Connections	<div style="width: 0%;">64 / 16384 (0%)</div>
--------------------	---

#### Active DHCP Leases

Hostname	IPv4 Address	MAC-Address	Leasetime remaining
JackSNHsu	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 Status - System - VPN - Services - Network - Telephony - MTK - Statistics - Logout REFRESHING

### Firewall Status

[IPv4 Firewall](#) [IPv6 Firewall](#) Hide empty chains Reset Counters Restart 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	<a href="#">input_rule</a>	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	<a href="#">syn_flood</a>	tcp	*	*	0.0.0.0/0	0.0.0.0/0	tcp flags 0x17/0x02	-
4.25 K	301.75 KB	<a href="#">zone_lan_input</a>	all	[br-lan]	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	<a href="#">zone_wan_input</a>	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	<a href="#">IP_LEAKAGE_PROTECT</a>	all	*	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	<a href="#">forwarding_rule</a>	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	<a href="#">zone_lan_forward</a>	all	[br-lan]	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	<a href="#">zone_wan_forward</a>	all	[eth1]	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	<a href="#">reject</a>	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	<a href="#">output_rule</a>	all	*	*	0.0.0.0/0	0.0.0.0/0	-	Custom output rule chain

**Hide empty chains** Click to hide/show empty chains

**Reset Counters** Click to reset counters for the firewall rules

**Restart Firewall** 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.

The screenshot shows the 'Routes' page of an OpenWrt system. The top navigation bar includes links for Status, System, VPN, Services, Network, Telephony, MTK, Statistics, and Logout. The main content is organized into several sections:

- ARP**: A table showing a single entry: IP 192.168.0.153 with MAC 7C:D3:0A:90:7F:71, interface lan.
- Active IPv4 Routes**: A table showing a single entry: Network lan, Target 192.168.0.0/24, IPv4-Gateway -, Metric 0, Table main.
- IPv6 Neighbours**: An empty table.
- Active IPv6 Routes**: An empty table.

At the bottom of the page, a footer note reads: "Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch (git-22.304.24905-8dd6934) / OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341".

## 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 [MTA@14954] [Metal] id = 173
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 121
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 123
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 8
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 51
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 133
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 10
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 118
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 127
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 147
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 149
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 14
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 157
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 159
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 183
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 171
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 179
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] id = 181
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] initModuleList
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] initModuleList mode=enable
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] initModuleList mode=enable
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] read boot mode str len = 1
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] boot mode size = 3, tag = 1090521090, mode = 0
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] Normal mode boot!
Mon Oct 31 07:09:05 2022 daemon debug [MTA@14954] [Metal] not meta mode boot!
Mon Oct 31 07:09:05 2022 daemon info mdlogger[14540] myModin:mdfr: access file ok
Mon Oct 31 07:09:05 2022 daemon debug mdlogger[14540] getSavedLoggingMode UCI md_save_mode = 1
Mon Oct 31 07:09:05 2022 daemon debug mdlogger[14540] getSavedLoggingMode Get auto start mode: 1
Mon Oct 31 07:09:05 2022 daemon debug mdlogger[14540] property_set_property_set_ok: mdlogger_Running=0 return 0
Mon Oct 31 07:09:05 2022 daemon debug mdlogger[14540] main_getSavedLoggingMode(): mode = 1
Mon Oct 31 07:09:05 2022 daemon debug mdlogger[14540] property_set_property_set_ok: mdtd_run_folder= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] property_set_property_set_ok: mdtd_EE_folder= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] property_set_property_set_ok: pullmdlog= return 0
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] property_set_property_set_ok: mdtd_EE_done= return 0
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14540] getSavedLoggingMode:EE result 0 Configure_3.new version: 1
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14540] getSavedCustomizeConfig:EE result 0 Configure_3.new version: 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] getPathCustomizeConfig:EE result 0 Configure_3.new version: 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] initModemConfigureModemLogConfigure:EE result 0 Configure_3.new version: 1
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] MAL_int_MAL_int
Mon Oct 31 07:09:05 2022 daemon.debug mdlogger[14540] MAL_ccb_int_MAL_ccb_int
Mon Oct 31 07:09:05 2022 daemon.info mdlogger[14540] checkValMdStatusDone:checkValMdStatusDone status = ready
Mon Oct 31 07:09:05 2022 kern info kernel: [ 37 835363] (0)\{14546 mdlogger\}[ccci]\chip\port ccc_ccb_dfl open with flag 20002 by emdlogger1
```

## 5.2.5 Kernel Log

### > Status > Kernel Log

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

OpenWrt Status System VPN Services Network Telephone MTK Statistics Logout

### Kernel Log

```
[ 6389 795761] <1>(0) swapper[1]name:b3@b3 broadcast enter counter cpu: 504, 861, 1590, 1270, success counter cpu: 72, 192, 276, 220, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6391 654602] (2)<1>proc[vdgt] kick watchdog
[ 6392 154174] <1>(22325_kworker/u2)[2]ccb1f1m[received MD status wait done] 1500
[ 6392 155307] (1)<136_cco_poll[1]ccb1f1m[received MD status response 81900043
[ 6393 35472] <1>(0) swapper[1]name:spm[3]SPM] MCUSYSOFTF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x440032c, debug_flag = 0x102060000 0x40000002
[ 6394 796579] <1>(0) swapper[1]name:b3@b3 broadcast enter counter cpu: 492, 818, 1445, 1997, success counter cpu: 102, 153, 160, 243, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6396 060756] (2)<1>proc[vdgt] kick watchdog
[ 6398 399452] <1>(0) swapper[1]name:spm[3]SPM] MCUSYSOFTF wake up by R12_CCI0_EVENT R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x4c
[ 6399 79718] <1>(0) swapper[1]name:b3@b3 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[vdgt] kick watchdog
[ 6402 675975] <1>(0) swapper[1]name:b3@b3 broadcast enter counter 0 10-31 08:55:09 949664 UTC,android time 2022-10-31 08:55:09 949664
[ 6403 443363] <2>(0) swapper[2]name:spm[3]SPM] MCUSYSOFTF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x8400200, debug_flag =
[ 6404 800936] (3)<0) swapper[2]name:b3@b3 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)<1>403_cci_syst[sys]system message (ffff 103 2 80) msg_count:15
[ 6406 073524] (2)<1>proc[vdgt] kick watchdog
[ 6407 675975] <1>(22325_kworker/u2)[2]ccb1f1m[received MD status response 81900043
[ 6407 675975] <1>(22325_kworker/u2)[2]ccb1f1m[received MD status wait done] 1500
[ 6408 713461] <1>(0) swapper[3]name:spm[3]SPM] MCUSYSOFTF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x8400200, debug_flag = 0x102060000 0x40000002
[ 6409 001997] <1>(0) swapper[3]name:b3@b3 broadcast enter counter cpu: 308, 867, 1709, 790, success counter cpu: 43, 255, 248, 141, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6411 080014] (2)<1>proc[vdgt] kick watchdog
[ 6413 113451] <1>(0) swapper[3]name:spm[3]SPM] MCUSYSOFTF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 0, r13 = 0x440132c, debug_flag =
[ 6414 102223] <1>(0) swapper[3]name:b3@b3 broadcast enter counter cpu: 1567, 918, 1506, 1108, success counter cpu: 184, 178, 210, 184, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6416 083490] (2)<1>proc[vdgt] kick watchdog
[ 6418 633398] <3>(0) swapper[3]name:spm[3]SPM] MCUSYSOFTF wake up by R12_NETSYS_WAKEUP R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x440032c, debug_flag =
[ 6419 803527] <3>(0) swapper[3]name:b3@b3 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[vdgt] kick watchdog
[ 6421 914149] (3)<1>403_cci_syst[sys]system message (ffff 103 2 80) msg_count:15
[ 6422 675883] <3>(0) swapper[3]name:b3@b3 broadcast enter counter 0 2022-10-31 08:55:29 949571 UTC,android time 2022-10-31 08:55:29 949571
[ 6422 858183] <1>(22325_kworker/u2)[2]ccb1f1m[received MD status response 81900043
[ 6422 888413] (0)<1>403_cci_poll[1]ccb1f1m[poll MD status wait done] 1500
[ 6423 674048] <0>(0) swapper[3]name:b3@b3 broadcast enter counter cpu: 528, 834, 1533, 2191, success counter cpu: 88, 154, 187, 283, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6424 804754] (1)<1>proc[vdgt] kick watchdog
[ 6428 743364] <1>(0) swapper[2]name:spm[3]SPM] MCUSYSOFTF wake up by R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x8400200, debug_flag = 0x102060000 0x40000002
[ 6429 006060] <2>(0) swapper[2]name:b3@b3 broadcast enter counter cpu: 654, 841, 1548, 1408, success counter cpu: 103, 181, 188, 225, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6431 099775] (2)<1>proc[vdgt] kick watchdog
[ 6433 784361] <1>(0) swapper[3]name:spm[3]SPM] MCUSYSOFTF wake up by R12_NETSYS_WAKEUP R12_SYS_TIMER R12_PCIE_WAKEUP, timer_out = 1, r13 = 0x440
[ 6434 807531] <3>(0) swapper[3]name:b3@b3 broadcast enter counter cpu: 997, 792, 1578, 1385, success counter cpu: 123, 195, 216, 186, fail counter cpu: 0, 0, 0, 0, interrupt
[ 6436 103413] (2)<1>proc[vdgt] kick watchdog
[ 6438 234051] <0>(22325_kworker/u2)[2]ccb1f1m[received MD status response 81a00043
[ 6438 235194] (3)<1>403_cci_poll[1]ccb1f1m[poll MD status wait done] 1500
[ 6438 59329] (1)<1>403_cci_syst[sys]system message (ffff 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

OpenWrt Status System VPN Services Network Telephony MTK Statistics Logout

### 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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Load Traffic Connections

3m 2m 1m

1.00 2.00 3.00

(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

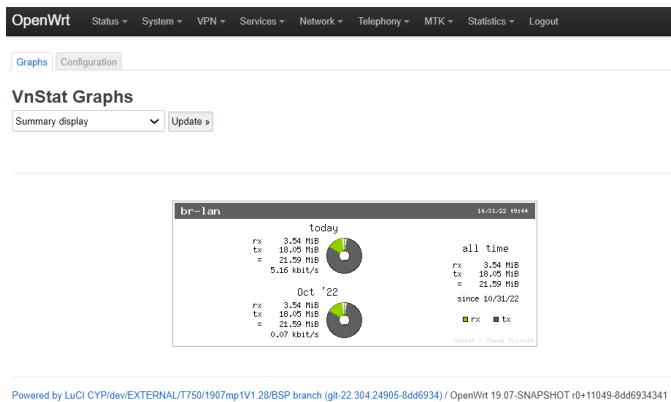
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## 5.2.8 VnStat Traffic Monitor

### > 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.



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 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 下午5:46:47  
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

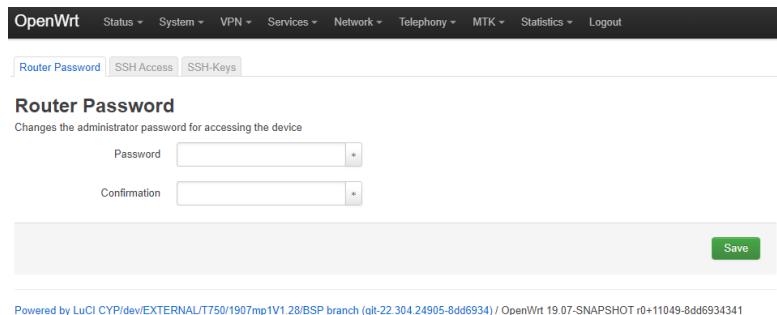
Set ZRam size and compression functions.

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**.



The screenshot shows the OpenWrt Administration interface. At the top, there is a navigation bar with links for Status, System, VPN, Services, Network, Telephony, MTK, Statistics, and Logout. Below the navigation bar, there are three tabs: Router Password (which is selected and highlighted in blue), SSH Access, and SSH-Keys. The main content area is titled "Router Password" and contains the following text: "Changes the administrator password for accessing the device". Below this text are two input fields: "Password" and "Confirmation", both with an asterisk (\*) indicating they are required. To the right of these fields is a green "Save" button. At the bottom of the page, there is a footer with the text "Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch (git-22 304.24905-8dd6934) / OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341".

#### Router Password

Change the password to access this router. Enter the new password again to confirm.

#### SSH Access

Configure Secure Shell access policies (Dropbear Instance)

Dropbear offers SSH network shell access and an integrated SCP server.

You may configure the interface, port, password authentication, gateway port, or root login with password.

You may click Add Instance to set a new SSH Access instance.

#### SSH-Keys

Configure Secure Shell credential keys. For instance, you may set public key that allows for the passwordless SSH logins with a higher security.

You may use an OpenSSH compatible public key.

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](#).

The screenshot shows the 'Software' page of an OpenWrt web interface. At the top, a dark header bar contains the 'OpenWrt' logo and a navigation menu with links for Status, System, VPN, Services, Network, Telephony, MTK, Statistics, and Logout. Below the header, a section titled 'Software' displays 'Free space' usage at 96% (27.8 MB). A progress bar indicates this usage. Below the progress bar are 'Filter' and 'Actions' buttons, including 'Type to filter...', 'Clear', 'Download and install package' (with a 'Package name or URL...' input field and 'OK' button), and 'Actions' buttons for 'Update lists...', 'Upload Package...', and 'Configure opkg...'. A navigation bar below these buttons includes tabs for 'Available' (which is selected), 'Installed', and 'Updates'. The main content area shows a table with columns for 'Package name', 'Version', 'Size (.ipk)', and 'Description'. A message 'No packages' is displayed above the table. At the bottom of the page, a footer note reads: 'Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch (git-22.304.24905-8dd6934) / OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341'.

## 5.3.3 Startup

### > System > Startup

The **Startup** page allows you to configure **Initscripts** or **Local Startup**.

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

### Startup

[Initscripts](#) [Local Startup](#)

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

Start priority	Initscript	Enabled	Start	Restart	Stop
00	1nvram_daemon	Enabled	Start	Restart	Stop
00	irestore	Enabled	Start	Restart	Stop
00	3ccci_mdinit	Enabled	Start	Restart	Stop
00	0mount_all	Enabled	Start	Restart	Stop
00	urngd	Enabled	Start	Restart	Stop
00	2ccci_fsd	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

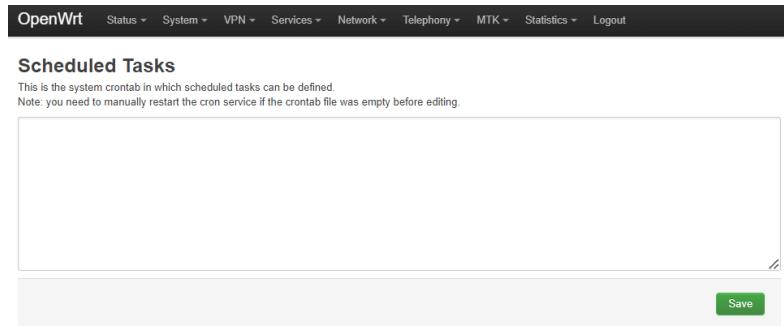
**Initscript** Enable or disable init scripts. To apply changes, restart the router.

**Local Startup** 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.



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### Scheduled Tasks

This is the system crontab in which scheduled tasks can be defined.  
Note: you need to manually restart the cron service if the crontab file was empty before editing.

Save

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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 mtblock setting is only for professionals in this field.

The screenshot shows the 'Flash operations' page of the OpenWrt web interface. The top navigation bar includes links for Status, System, VPN, Services, Network, Telephony, MTK, Statistics, and Logout. Below the navigation is a sub-navigation bar with 'Actions' and 'Configuration' tabs, with 'Actions' being the active tab. The main content area is titled 'Flash operations' and contains the following sections:

- Backup:** A section for generating a configuration archive. It includes a 'Download backup' button and a prominent 'Generate archive' button.
- Restore:** A section for restoring configuration files. It includes a 'Reset to defaults' button, a 'Perform reset' button (which is red), a 'Restore backup' button, and a 'Upload archive...' button (which is blue). A note below states: '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).'
- Save mtblock contents:** A section for saving mtblock contents. It includes a 'Choose mtblock' dropdown menu (which is red), a 'Download mtblock' button, and a 'Save mtblock' button.
- Flash new firmware image:** A section for flashing a new firmware image. It includes an 'Image' input field and a 'Flash image...' button.

<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 mtdblock contents</b>	Click "Save mtdblock" to download specified mtdblock files.
<b>Flash new firmware image</b>	Note: this feature is only for professional familiar with mtdblock. 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**.

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**Reboot**  
Reboots the operating system of your device

**Perform reboot**

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## 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

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

### 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
	<small>maximum file count must be larger than 2</small>
AP boot log maximum keeping numbers	5
	<small>maximum numbers count must be larger than 5</small>
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	<input type="text" value="disable"/>
MD dumpback mode	<input type="text" value="normal dump"/>
MD log level	<input type="text" value="Debug"/>
MD log file size	<input type="text" value="20"/>
<small> ⓘ unit MB and file size should larger than 20MB</small>	
The maximum MD log size	<input type="text" value="200"/>
<small> ⓘ It will replace oldest log when reaching maximum size</small>	
MD memory dump wait time	<input type="text" value="15"/>
<small> ⓘ If you save &amp; apply new value, then a reboot will be required</small>	
MD Log IP Address	<input type="text" value="0.0.0.0"/>
<small> ⓘ Specify MD Log IP address</small>	
MD Log Port	<input type="text" value="10001"/>
<small> ⓘ Specify MD Log Port</small>	
tcpdump snaplen	<input type="text" value="128"/>
<small> ⓘ Specify the number of bytes to be captured by tcpdump</small>	

Save & Apply Save Reset

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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.

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

**Template based configuration**

Instance name:  Select template:  Add:

**OVPN configuration file upload**

Instance name:   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**.

**VPN Bypass Settings**  
Service Status [vpnbypass 1.3.1-7]  
Service Status Stopped (disabled)  
Service Control Start Restart Stop Enable Disable  
**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)  
Remots 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 & Apply Save Reset

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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**.

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

[Add](#)

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

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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

**MAIN**

[General Settings](#) [Full Web Server Settings](#) [Advanced Settings](#)

**HTTP listeners (address:port)**        
 Bind to specific interface port (by specifying interface address)

**HTTPS listener (address:port)**        
 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)**

**HTTPS Private Key (DER Encoded)**

**Remove old certificate and key**    
 uHTTPd will generate a new self-signed certificate using the configuration shown below.

**Remove configuration for certificate and key**    
 This permanently deletes the cert, key, and configuration to use same.

**uHTTPd Self-signed Certificate Parameters**

Valid for # of Days

Length of key in bits

#### 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.

# 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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[Interfaces](#) Global network options

### Interfaces

<b>WAN</b>  eth1	Protocol: DHCP client RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Error: Network device is not present	<a href="#">Restart</a>	<a href="#">Stop</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
<b>WAN6</b>  eth1	Protocol: DHCPv6 client RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Error: Network device is not present	<a href="#">Restart</a>	<a href="#">Stop</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
<b>LAN</b>  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	<a href="#">Restart</a>	<a href="#">Stop</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

[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**.

**OpenWrt** Status ▾ System ▾ VPN ▾ Services ▾ Network ▾ Telephony ▾ MTK ▾ Statistics ▾ Logout **REFRESHING**

### DHCP and DNS

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

#### Server Settings

[General Settings](#) [Resolve and Hosts Files](#) [TFTP Settings](#) [Advanced Settings](#) [Static 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>	<p>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.</p> <p>Use the <a href="#">Add</a> 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.</p>

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.

OpenWrt Status System VPN Services Network Telephony MTK Statistics Logout

**Hostnames**

Host entries

Hostname	IP address
This section contains no values yet	

[Add](#)

**Save & Apply** **Save** **Reset**

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

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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**.

**General Settings**

Enable SYN-flood protection

Drop invalid packets

Input: accept

Output: accept

Forward: reject

**Zones**

Zone → Forwardings	Input	Output	Forward	Masquerading
lan <span style="background-color: green;">⇒</span> wan	accept	accept	accept	<input type="checkbox"/>
wan <span style="background-color: red;">⇒</span> REJECT	reject	accept	reject	<input checked="" type="checkbox"/>

**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 function 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.

#### NAT Rules

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.

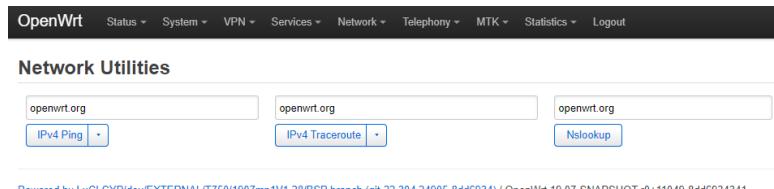
#### Custom Rules

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.



openwrt.org

openwrt.org

openwrt.org

IPv4 Ping

IPv4 Traceroute

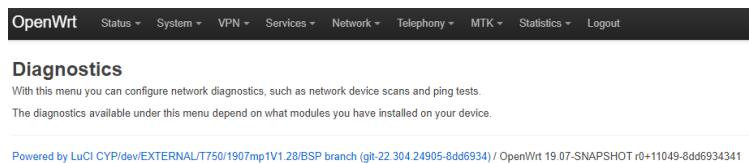
Nslookup

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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.



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### 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.

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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  Delete

Calculate overhead  Half-duplex

Download speed (kbit/s)  Upload speed (kbit/s)

Delete Add

**Classification Rules**

Target	Source host	Destination host	Protocol	Ports	Number of bytes	Comment
p	<input type="text" value="all"/>	<input type="text" value="all"/>	<input type="text" value="all"/>	<input type="text" value="22.53"/>	<span style="border: 1px solid red; padding: 2px;">Delete</span>	ssh, dns
n	<input type="text" value="all"/>	<input type="text" value="all"/>	<input type="text" value="TCP"/>	<input type="text" value="20,21,25,80,110,443,993,995"/>	<span style="border: 1px solid red; padding: 2px;">Delete</span>	ftp, smtp
e	<input type="text" value="all"/>	<input type="text" value="all"/>	<input type="text" value="all"/>	<input type="text" value="5190"/>	<span style="border: 1px solid red; padding: 2px;">Delete</span>	AOL, ICQ

Add Save & Apply Save Reset

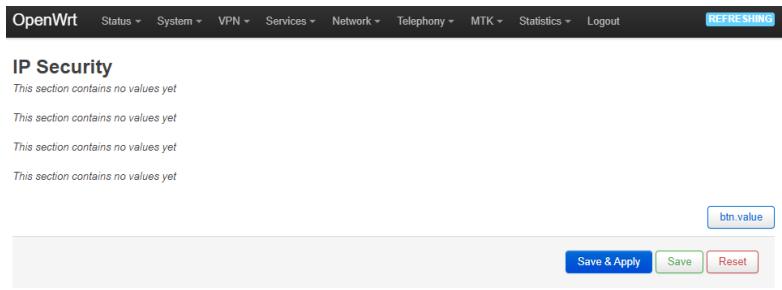
Powered by LuCI CYP/dev/EXTERNAL/I750/1907mp1V1 28/BSP branch (git:22.304.24905-8dd6934) / OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341

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.



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### IP Security

*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.

The screenshot shows the 'Telephony Overview' page with the following sections and controls:

- SIM**: Status (MIPC\_SIM\_STATUS\_COMPLETE\_READY, Unlock), PIN
- Network**: Radio Status (Get SW radio state MIPC\_NW\_RADIO\_STATE\_ON, On, Off), IA APN (Reset Radio with new IA APN), 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.net/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), MO (Call Status, Key detect and dial, DTMF, Dial), MT (Accept ringing, Accept waiting, 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, Set Volume(1-7)), Speech Status, Speech (Swap, Merge, Hangup foreground, Hangup all)
- In call operation, Hangup

## 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

---

<b>MT7915D</b> Driver version: 7.4.0.0	<a href="#">Config</a>
<b>MT7915D.1.1</b> Work mode: AP	<a href="#">Reload</a> <a href="#">Config</a> <a href="#">Add</a>
Interface: ra0   Type: AP   SSID: Verizon_ZN466H_2G   Channel: 6 BSSID: 98:c8:54:e5:a5:7a   Mode: HE_2G mode	<a href="#">Disable</a> <a href="#">Config</a> <a href="#">Remove</a>
Interface: apcl0   Type: STA   Status: Disconnected Wireless is disabled or not associated	<a href="#">Enable</a> <a href="#">Connect</a> <a href="#">Config</a>
 <b>MT7915D.1.2</b> Work mode: AP	<a href="#">Reload</a> <a href="#">Config</a> <a href="#">Add</a>
Interface: ra0   Type: AP   SSID: Verizon_ZN466H_5G   Channel: 36 BSSID: 98:c8:54:e5:a4:44   Mode: HE_5G mode	<a href="#">Disable</a> <a href="#">Config</a> <a href="#">Remove</a>
Interface: apcl0   Type: STA   Status: Disconnected Wireless is disabled or not associated	<a href="#">Enable</a> <a href="#">Connect</a> <a href="#">Config</a>

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## 5.8.2 Web Console

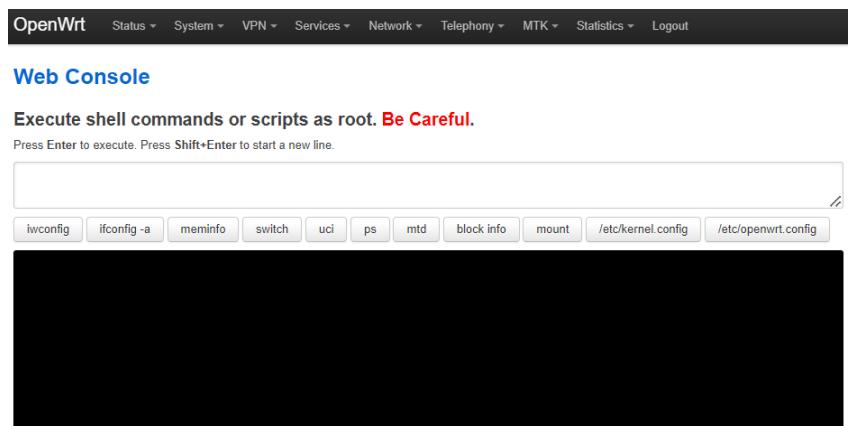
### > MTK > Web Console

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.



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### Web Console

Execute shell commands or scripts as root. **Be Careful.**

Press Enter to execute. Press Shift+Enter to start a new line.

[iwconfig](#) [ifconfig -a](#) [meminfo](#) [switch](#) [uci](#) [ps](#) [mtd](#) [block info](#) [mount](#) [/etc/kernel.config](#) [/etc/openwrt.config](#)

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## 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

OpenWrt Status System VPN Services Network Telephony MTK Statistics Logout

### EasyMesh Configurations

Basic

EasyMesh Mode: Disable

Disable  
Map Turnkey  
BS 2.0  
API Mode  
Cert

Save and Apply Save Reset

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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.



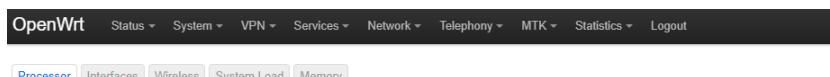
The screenshot shows the OpenWrt web interface with a dark header bar. The header contains the 'OpenWrt' logo, a 'Logout' button, and a horizontal menu with the following items: Status, System, VPN, Services, Network, Telephony, MTK, Statistics, and Logout. Below the header is a navigation bar with five tabs: Processor, Interfaces, Wireless, System Load, and Memory. The 'Processor' tab is highlighted with a blue border. The main content area is titled 'Statistics'.

### Statistics

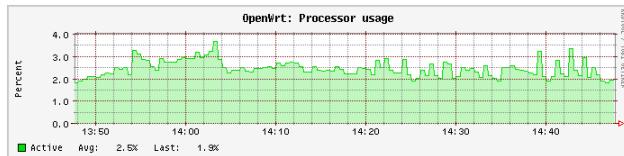
The statistics package uses [Collectd](#) to gather data and [RRDtool](#) to render diagram images.

You can install additional `collectd-mod-*` plugins to enable more statistics.

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The screenshot shows the 'Processor' graph page. The header and navigation bar are identical to the previous screenshot. The main content area is titled 'Statistics' and contains a sub-header 'Processor usage'. Below this are two dropdown menus: 'Display Host' set to 'OpenWrt' and 'Display timespan' set to '1hour'. The main area is a line graph titled 'OpenWrt: Processor usage' showing 'Percent' usage over time. The y-axis ranges from 0.0 to 4.0 in increments of 1.0. The x-axis shows time from 13:50 to 14:40. The graph shows a green line with a red shaded area underneath, representing active processor usage. A legend at the bottom left shows a green square for 'Active'. Below the graph, the text 'Avg: 2.5% Last: 1.8%' is displayed. The bottom of the page includes the same footer: 'Powered by LuCI CYP/dev/EXTERNAL/T750/1907mp1V1.28/BSP branch (git-22.304.24905-8dd6934) / OpenWrt 19.07-SNAPSHOT r0+11049-8dd6934341'.



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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**.

The screenshot shows the 'Statistics > Setup' page with the 'Collectd Settings' tab selected. The page displays configuration options for the collectd daemon, including base directory, configuration directory, plugin directory, PID file, datasets definition file, data collection interval (set to 30 seconds), number of threads (set to 2), and a checkbox for trying to lookup fully qualified hostnames. At the bottom, there are buttons for 'Save & Apply', 'Save', and 'Reset'.

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	<input type="checkbox"/>

-- Additional Field --

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<b>General plugins</b>	Click it to perform plugin configurations to collect statistic data. You may choose <a href="#">Processor</a> , <a href="#">System Load</a> , or <a href="#">Memory</a> to configure their respective plugins.
<b>Network plugins</b>	Click it to monitor plugins statistics collected by <a href="#">Interfaces</a> and <a href="#">Wireless</a> . You can click <a href="#">Interfaces</a> or <a href="#">Wireless</a> to configure their respective plugins.
<b>Output plugins</b>	Click it to access <a href="#">Network Plugin Configuration</a> or <a href="#">RRDTool Plugin Configuration</a> . The Network Plugin Configuration allows you to 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

<b>Frequency bands</b>	5G NR: n2, n5, n48, n66, n77 4G LTE: B2, B5, B13, B48, B66
<b>Memory</b>	RAM: 2GB ROM: 16GB
<b>Wi-Fi</b>	Wi-Fi 6 (802.11 a/b/g/n/ac/ax), 2.4/5.0GHz, 2x2 MIMO
<b>Network</b>	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
<b>LED</b>	Tri-color LED x 1
<b>WPS</b>	WPS button x 1
<b>Max. connected devices</b>	Up to 128 devices (up to 100 when Band Steering is activated)
<b>LAN</b>	1000BASE-T x 1
<b>Reset</b>	Reset pin hole x 1
<b>Power</b>	DC power jack x 1
<b>SIM</b>	eSIM x 1
<b>USB</b>	USB Type-C x 1 (for host mode)
<b>Dimensions</b>	94 x 94 x 180 mm
<b>Weight</b>	570g
<b>Accessories</b>	AC Power Adapter • Input: 100 - 240V • Output: 12V/2.0A
<b>OS</b>	CRSP
<b>Built-in features</b>	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 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.

# Legal Notices

## Copyright Statements

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The Wi-Fi Logo is a certification mark of the Wi-Fi Alliance.

## 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.