




# Configuring a TPLINK Router

TP Link C50/C2/C20/C20i Basic Configuration Steps

# Configuring Your Router

## STEP 1 (a): Connect Your PC to the Router

- Unbox the router and power up the router.
- Connect the Act internet cable to the WAN/Internet port (different coloured port) of the router.
- An extra LAN cable will be available with the router, take LAN cable connect one end to the LAN port (1-4) of the router (any one port) and one end to the PC or Laptop.
- In the system press  key & R key together  +  to open Run dialog box.
- Type ipconfig on the command prompt (Black screen). The default gateway of the LAN or Ethernet adapter will be the Router address. (Ex:192.168.0.1)

```
C:\Users\USER>ipconfig
Windows IP Configuration

Wireless LAN adapter Wireless Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . : ATRIA

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 192.168.1.101
    Subnet Mask . . . . . : 255.255.255.0
```


## **STEP 1 (b): Connect Your Mobile**

- Switch on the router and connect ACT internet cable to the WAN/Internet port of the router
- Go to setting in the Mobile, turn on Wi-Fi and wait until the mobile detects router name press the router name to connect.
- If the router is already configured and the Wi-Fi password is known then go to settings in the Mobile
- Under “Wireless and Networks”, press Wi-Fi make sure "Wi-Fi" is turned on.
- Wait until the mobile detects router name press the router name if prompted enter the Wi-Fi password and press Connect.

## NOTE

- Every Router Configuration has two parts
  - Configuring the Internet Part, where we tell the Router how to connect to the internet.
  - Configuring the Wi-Fi Part, where we decide the name and password with which we connect to the Router
- Internet Configuration shown here will guide to configure the Router in PPPoE.
  - This will enable you to browse internet directly, every time you connect to the router. No need to login again and again.
- Wi-Fi Configuration has also been given, in order to ease the process of you connecting to the Router
  - SSID and Password Creation have been explained\
  - Few high end routers have two bands to work on – 2.4 GHz and 5 GHz
  - 2.4 GHz band provides higher range, but lesser speed.
  - 5 GHz band provides lower range, but higher speed.
  - Changing Different Wi-Fi Channels – Helps in reducing Slow Speed Issues.

## STEP 2: Logging into the Router

- Open a browser  Enter the below IP Address in the Address Bar. A login page appears. The usual usernames and passwords are given in the table below.

Router Name	IP Address	Username	Password
Cisco or Linksys	192.168.1.1	admin	admin
D-Link	192.168.0.1	admin	(blank)
TP-Link	192.168.0.1	admin	admin
Net gear	192.168.1.1	admin	password
Belkin	192.168.2.1	Click on Login in Home	(blank)
Tenda	192.168.0.1	admin	admin
i-Ball Baton	192.168.1.1	admin	admin
Digisol	192.168.2.1	admin	1234 or admin
Asus	192.168.1.1	admin	admin

If all the above credentials do not work, please check the back of the router where the username and Password will be mentioned.

### **STEP 3: Internet Connectivity – PPPoE Configuration**

Step 1: Open any web browser

Step 2: Type Router page address on the address bar(192.168.0.1)

Step 3: Login with credentials



### STEP 3: Internet Connectivity – PPPoE Configuration

Step 1: Enter the portal username in the PPPoE username field

Step 2: Enter the portal password in the PPPoE password

Step 3: Click on ok

The screenshot displays the TP-LINK WAN Settings interface. The left sidebar contains a navigation menu with options: Status, Quick Setup, Network (highlighted), WAN, LAN, MAC Clone, Dual Band Selection, Wireless 2.4GHz, Wireless 5GHz, Guest Network, DHCP, USB Settings, NAT, Forwarding, Security, Parent Control, Access Control, Advanced Routing, and Bandwidth Control. The main content area is titled 'WAN Settings' and features the following configuration options:

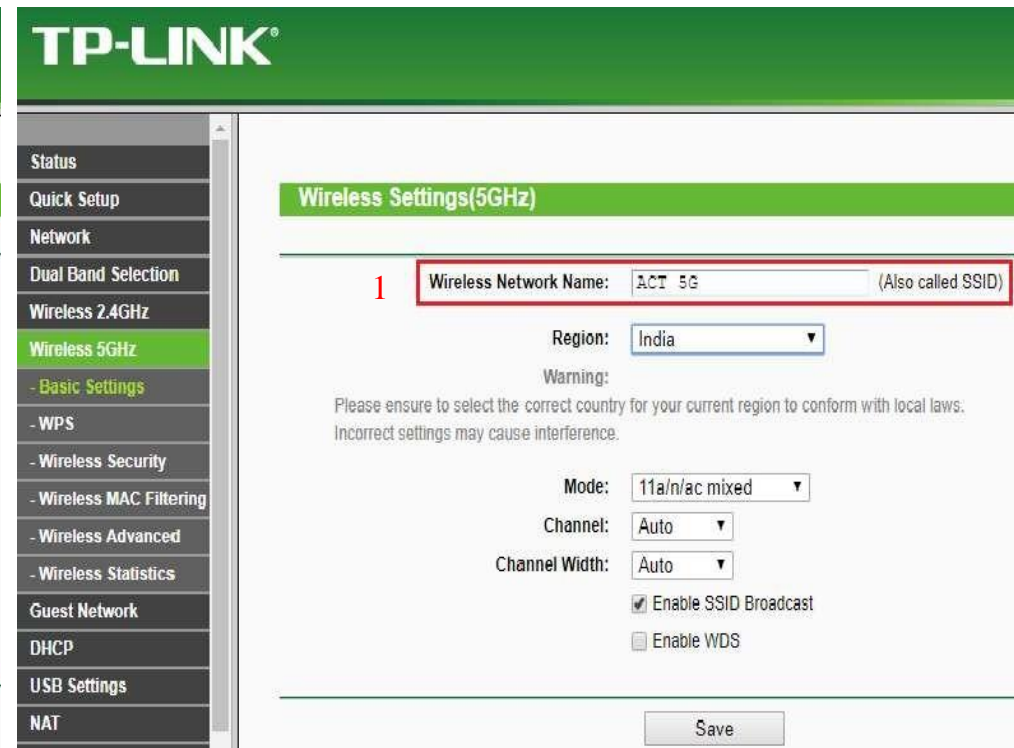
- Connection Type:** A dropdown menu set to 'PPPoE' with a 'Detect' button next to it. A red box highlights this section with the number '1'.
- PPP Username:** A text input field containing 'ACT ID'.
- PPP Password:** A password input field with six dots.
- Confirm password:** A password input field with six dots. A red box highlights these three fields with the number '2'.
- Secondary Connection:** Radio buttons for Disabled (selected), Dynamic IP, and Static IP (For Dual Access).
- Connection Mode:** Radio buttons for Always on (selected), Connect on demand, and Connect manually.
- Max Idle Time:** A numeric input field set to '15' minutes, with a note '(0 meaning connection remains active at all times)'.
- Authentication Type:** A dropdown menu set to 'AUTO\_AUTH'.
- Buttons for 'Connect' and 'Disconnect' are located at the bottom.
- An 'Advance' button with a dropdown arrow is in the bottom right corner.

## STEP 4(a): Wi-Fi Connectivity – Router SSID/Password Configuration

- Step 1: Type in your preferred Wi-Fi name in SSID(Network name dialog box) and give different name for both 2.4Ghz & 5Ghz.
- Step 2: All the remaining field are set by default
- Step 3: click on ok



The screenshot shows the TP-LINK router's wireless settings for the 2.4GHz band. The 'Wireless Network Name' field is highlighted with a red box and contains the text 'ACT'. A red number '1' is placed to the left of this field. Other settings include Region: India, Mode: 11bgn mixed, Channel: Auto, and Channel Width: Auto. There are checkboxes for 'Enable SSID Broadcast' (checked) and 'Enable WDS' (unchecked). A 'Save' button is at the bottom.



The screenshot shows the TP-LINK router's wireless settings for the 5GHz band. The 'Wireless Network Name' field is highlighted with a red box and contains the text 'ACT 5G'. A red number '1' is placed to the left of this field. Other settings include Region: India, Mode: 11a/n/ac mixed, Channel: Auto, and Channel Width: Auto. There are checkboxes for 'Enable SSID Broadcast' (checked) and 'Enable WDS' (unchecked). A 'Save' button is at the bottom.



## STEP 4(b): Wi-Fi Connectivity –Password Configuration

Step 1: Click on security mode dialog box and select WPA2–PSK (Recommended).

Step 2: Click on AES (Recommended) & type in your desired password.

Step 3: To configure a wireless Password

Step 4: Click OK



The screenshot shows the TP-LINK web interface for configuring wireless security. The left sidebar contains a navigation menu with the following items: Status, Quick Setup, Network, Dual Band Selection, Wireless 2.4GHz, Wireless 5GHz (highlighted), - Basic Settings, - WPS, - Wireless Security (highlighted with a red box), - Wireless MAC Filtering, - Wireless Advanced, - Wireless Statistics, Guest Network, and DHCP. The main content area is titled "Wireless Security Settings" and contains the following text:

Note: WEP security, WPA/WPA2-Enterprise authentication and TKIP encryption are not supported with WPS enabled.

Note: WEP encryption are not supported with Guest Network enabled.

For network security, it is strongly recommended to enable wireless security and use WPA-PSK AES encryption.

There are two radio button options for security mode:

- Disable Wireless Security
- WPA/WPA2 - Personal(Recommended) (highlighted with a red box and labeled with a red "1")

Below the radio buttons, there are two dropdown menus:

- Authentication Type: WPA2-PSK (highlighted with a red box)
- Encryption: AES (highlighted with a red box)

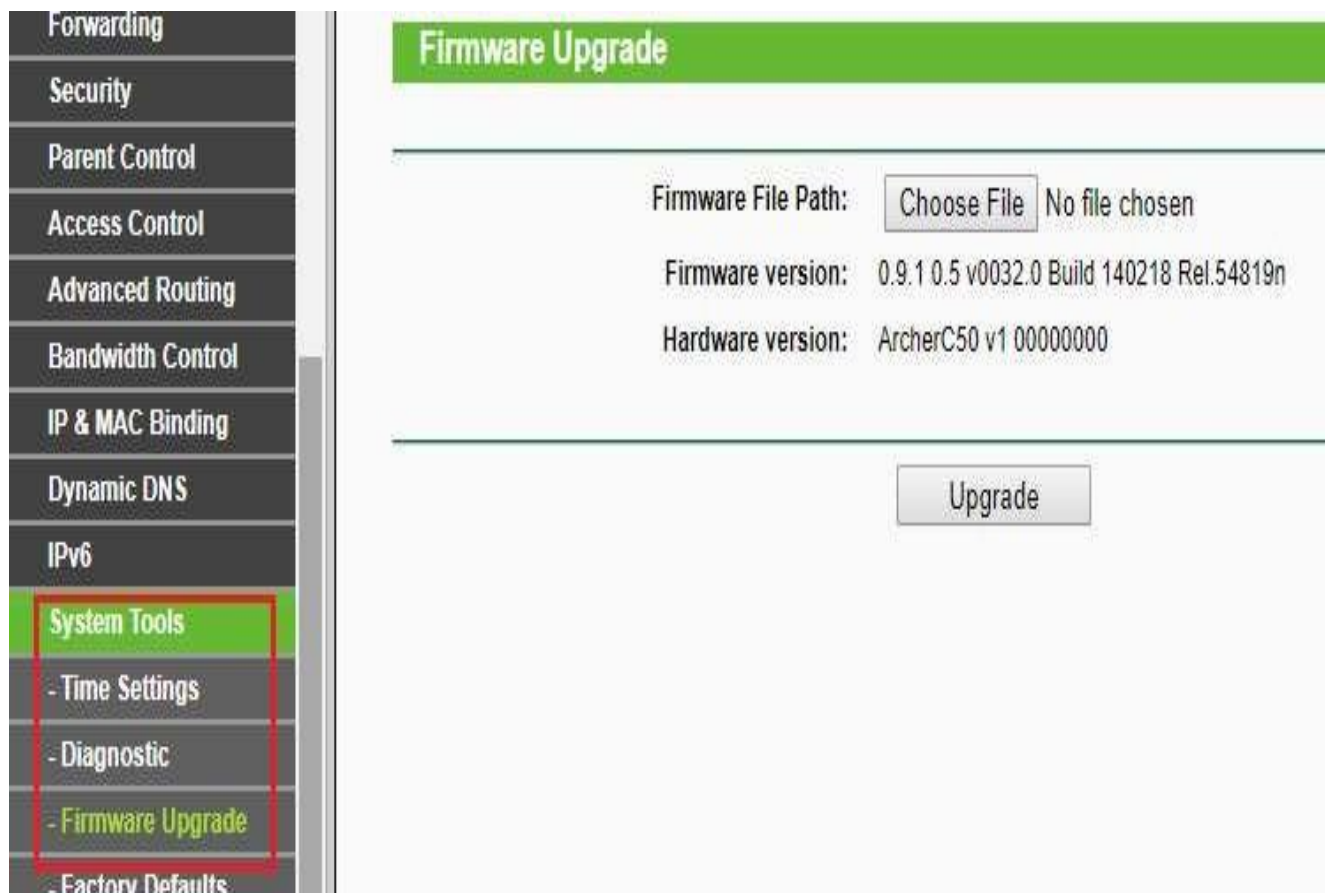
Below the dropdown menus, there is a text input field for the wireless password:

- Wireless Password: 12345678 (highlighted with a red box and labeled with a red "2")

At the bottom, there is a text input field for the Group Key Update Period, which is currently set to 0.

## STEP 5 (As and when required): Firmware upgrade

System Tools > firmware upgrade > upload the new firmware file > upgrade firmware



Forwarding

Security

Parent Control

Access Control

Advanced Routing

Bandwidth Control

IP & MAC Binding

Dynamic DNS

IPv6

**System Tools**

- Time Settings
- Diagnostic
- **Firmware Upgrade**
- Factory Defaults

### Firmware Upgrade

Firmware File Path:  No file chosen

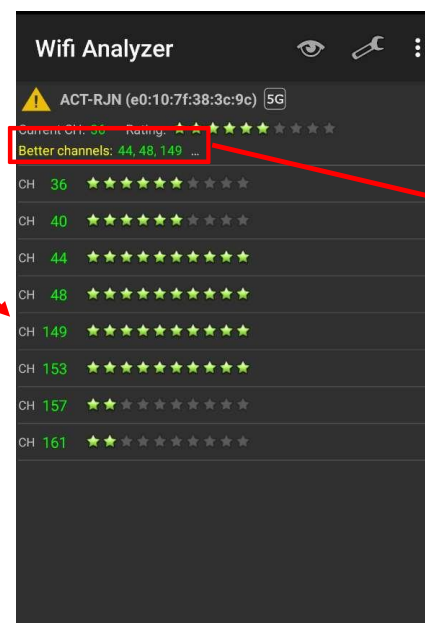
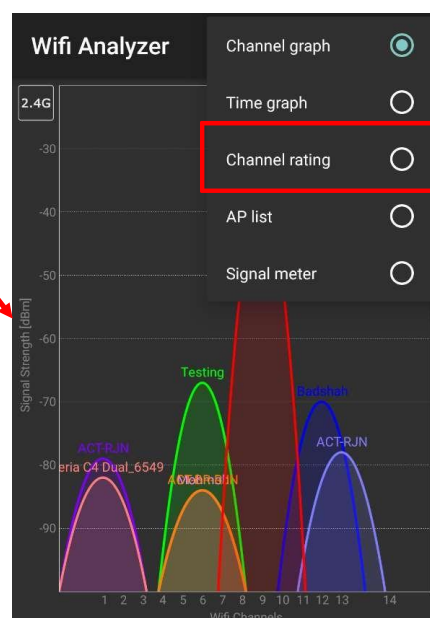
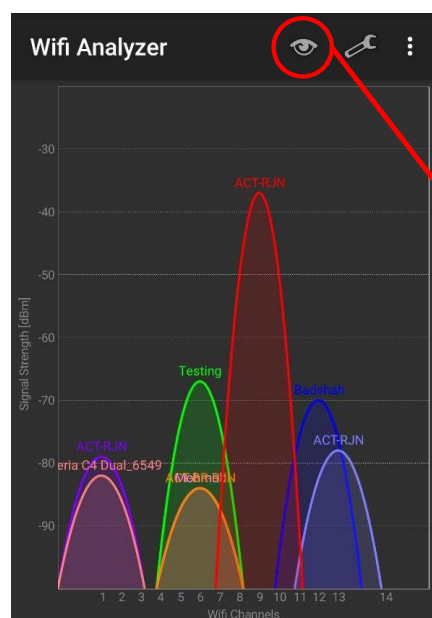
Firmware version: 0.9.1 0.5 v0032.0 Build 140218 Rel.54819n

Hardware version: ArcherC50 v1 00000000

You can choose to download a Firmware version and then upload it offline or choose to download directly from internet itself.

## STEP 6: Channel Change (As and when required)



- Channels are the mediums through which your router transmits signals to other devices.
- There are several channels that one can choose from, based on the Frequency at which your router works (Bands – 2.4 GHz) and the premises.
  - Step A: Download any Wi-Fi Analyzer software from Internet (It is a Freeware).
  - Step B: Choose to view different channels. We have provided an Example for better understanding.
  - Step C: Channel numbers for 2.4 GHz will be in the range of 1 to 14
  - Step D: Wi-Fi analyzer will show which channel is being utilized most and which one the least. Refer the example in the next slide. Choosing a channel with least utilization will give maximum advantage.



More Stars implies Lesser Utilization of Channel

## Changes to be made after Configuration

- If the Wi-Fi password is changed, we need to update the password in all the devices to get connected to the Internet.
- Changes in PC
  - **Windows 7:** Click on Windows button → click on Control Panel → click on Network and Internet → click on Network and Sharing Centre.
  - In the Tasks pane(Left side of screen), click Manage wireless networks
  - Right-click the router name → click Remove network → click on OK.
  - Click on Network icon (right bottom corner next to system Time), click on Router name and enter the new Wi-Fi password and Connect.

- Changes in PC
  - **Win 8, 8.1:** Click on Network icon (right bottom corner next to system Time), Right click on Router name click on “Forget this network”. Again click on Router name, enter the new Wi-Fi password and Connect.
  - **Win 10:** Click on Network icon(right bottom corner next to system Time), click on Network settings under Wi-Fi click on Manage known Networks  Click on your Router name and Click on Forget, and again click on Network icon  click on Router name enter the new Wi-Fi password and Connect
- Mobile or Tablet
  - Go to ‘Settings’ in Mobile, turn on Wi-Fi and long press on your Router name and press “Forget network”. Again press the router name. You will be prompted to enter the Wi-Fi password. Enter the Password and Connect.