

TERADEK Link

Extending Your Wi-Fi Range with Multiple Links

Link's Wi-Fi radios can now be set to **Client** mode, allowing them to connect to other Link devices for extended network applications. This configuration requires firmware version 1.0.2 or later. Configuration is only required on the Link designated to be used in client mode. The secondary Link is referred to as the **Main** Link. Note that once configured, both Wi-Fi access points on the main Link are still available, but only one access point on the client Link will be available (the other is used to connect to the main Link). Performing a factory reset prior to configuring the Link is recommended.



CONFIGURE LAN SETTINGS

Configuration involves modifications to the LAN and Wireless settings page, all on the client Link. From Link's web interface, navigate to **Network > LAN**.

1. Assign an IP address different than the main Link's.

By default, Link's LAN IP address is statically configured to 172.16.2.1. When connecting two Links, ensure they each have unique IP addresses. Enter the new IPv4 address under **Common Configuration > General Setup > IPv4 address**.

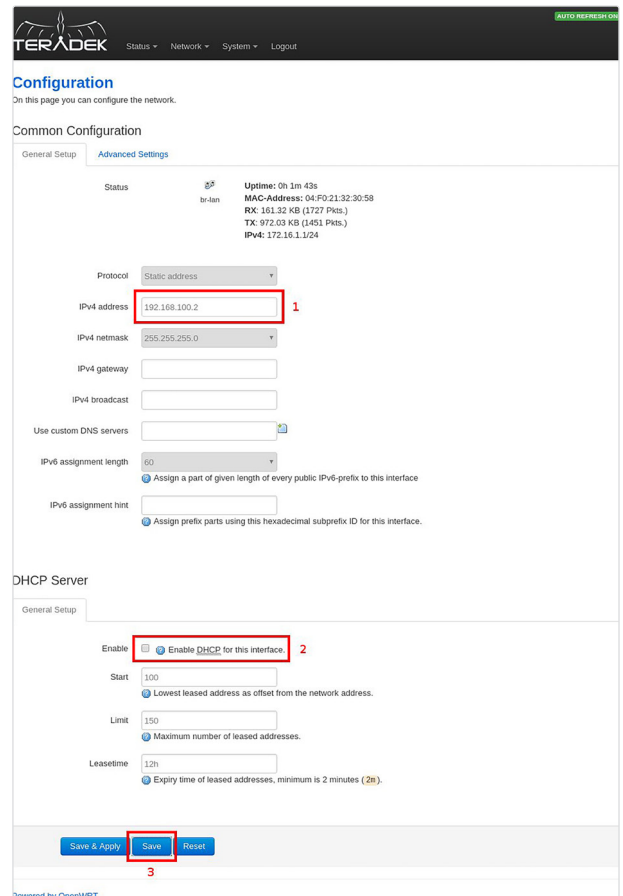
- Example 1: main IP is 172.16.2.1, set client IP to 172.16.2.2
- Example 2: main IP is 192.168.1.1, set client IP to 192.168.1.2

2. Disable the DHCP server.

To use the main Link's DHCP server, the client DHCP server must be disabled. Uncheck **Enable** under **DHCP Server > General Setup > Enable**.

3. Save settings.

Click the **Save** button. **Do not click Save & Apply**.



The screenshot shows the TeraDEK web interface for LAN configuration. The 'Common Configuration' section is active, with 'Advanced Settings' selected. Under 'General Setup', the 'IPv4 address' field is highlighted with a red box and labeled '1', containing the value '192.168.100.2'. Below it, the 'DHCP Server' section is visible, with the 'Enable' checkbox checked and labeled '2'. At the bottom of the configuration area, the 'Save' button is highlighted with a red box and labeled '3'. The interface also shows system status information like 'Uptime: 0h 1m 43s' and 'MAC-Address: 04:F0:21:32:30:58'.

CONFIGURE WI-FI SETTINGS

From the Link's web interface, navigate to **Network > Wireless**, then click **Configure** for whichever interface you want to connect to the main Link (this interface will no longer provide Wi-Fi to devices).

- Example: The extended network will provide Wi-Fi on the 5GHz channel, so **the client's 2.4GHz radio** will connect to the main Link's 2.4GHz radio.

1. Configure the radio as a Wi-Fi client.

Set Mode to **Client** (**Interface Configuration > General Setup > Mode**), then enter the ESSID of the main Link (**Interface Configuration > General Setup > ESSID**). Make sure to use the ESSID (network name) for the correct frequency (2.4GHz or 5GHz).

2. Configure Wi-Fi security.

Select the encryption type and enter the network password used on the Main Link's network. (**Interface Configuration > Wireless Security**).

3. Save settings

Click the **Save & Apply** button. At this point, the client Link will reconfigure its network and connect to the main Link. When devices connect to the client Link's Wi-Fi, they will obtain IP addresses from the main Link; the client just forwards traffic between the two.

TERADEK Status Network System Logout

Wireless Network: Master "Link-00003 5G" (ath1)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the **Interface Configuration**.

Device Configuration

General Setup

Status: Mode: Master | SSID: Link-00003 5G
100% BSSID: 04:F0:21:32:2F:00 | Encryption: WPA2-NONE (CCMP)
Channel: 64 (5.320 GHz) | Tx-Power: 22 dBm
Signal: -97 dBm | Noise: -95 dBm
Bitrate: 173.3 Mbps | Country: 00

Wireless network is enabled Disable

Channel: auto
Mode: 802.11ac
HT mode: 20MHz

Interface Configuration

General Setup Wireless Security

ESSID: Link-00003 5G
Mode: Client
BSSID:

Interface Configuration

General Setup Wireless Security

Encryption: WPA2-PSK
Cipher: auto
Key: *****

Save & Apply Save Reset

NAVIGATE TO THEIR NEW IP ADDRESS

To verify that the configuration was performed correctly, navigate to the new IP address configured for the client Link. Note that you may need to disconnect and reconnect to the Link to get a new DHCP address. **NOTE: Client Link's WiFi networks should be different from the Main Link's network.**

Teradek regularly releases new firmware versions to improve performance, add features, or fix vulnerabilities. [teradek.com/pages/downloads](https://www.teradek.com/pages/downloads) contains all the latest firmware and software updates.

Visit support.teradek.com for tips, information, and to submit help requests to Teradek's support team.