

Getting Started

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First Time Network Connection

Connecting to your signalTRX unit for the first time.

First, you must connect to your unit via a network connection. There are multiple ways to connect to your signalTRX unit to a network. Below is a list of these methods, which are explored in more detail below. The variety of options is there to ensure that no matter the scale of your system, there is always a quick and convenient way to set up your signalTRX units for the first time.

- 1 - Plug unit into an existing network which has a DHCP server.
- 2 - Plug unit into an existing network without DHCP.
- 3 - Plug unit directly into your computer via its network connection.
- 4 - Use Access point mode to connect to the device directly over wifi, enabling you to configure the signalTRX unit to connect to an existing WIFI network.
- 5 - Use a USB stick to flash a configuration file to the unit (including network connection information), enabling rapid programming of multiple signalTRX units.

1 - Connecting the unit to an existing network which has a DHCP server.

Plug your signalTRX unit into your network using a cat5e cable (or above).

Wait for it to be given an IP address (usually about 10 seconds).

As soon as this happens, the IP address will be displayed on the OLED display.

At this point, you can connect to the device via its web GUI, or via the signalCONTROL app.

To access the web GUI, ensuring that your computer is on the same network and subnet (or has routes to), enter the IP address in your web browser to access the signalTRX GUI.

To connect via the sygnalCONTROL app, ensuring that your computer is on the same subnet, click the + icon in the bottom left of the screen. Now select the discovered device from the list and press "add". Alternatively, you can type in the IP address for the sygnalTRX unit if it is on a different subnet which will mean the automatic discovery will not work.

2- Plug unit into an existing network without DHCP.

Plug your sygnalTRX unit into your network using a cat5e cable (or above).

Wait for it to be given an automatically assigned IP address (usually about 10-20 seconds).

As soon as this happens, the IP address will be displayed on the OLED display.

At this point, you can connect to the device via its web GUI, or via the sygnalCONTROL app.

To access the web GUI, ensuring that your computer is on the same network and subnet (or has routes to), enter the IP address in your web browser to access the sygnalTRX GUI.

To connect via the sygnalCONTROL app, ensuring that your computer is on the same subnet, click the + icon in the bottom left of the screen. Now select the discovered device from the list and press "add". Alternatively, you can type in the IP address for the sygnalTRX unit if it is on a different subnet which will mean the automatic discovery will not work.

3 - Plug unit directly into your computer via its network connection.

Plug your sygnalTRX unit into your computer using a cat5e cable (or above).

Wait for it to be given an automatically assigned IP address (usually about 10-20 seconds).

As soon as this happens, the IP address will be displayed on the OLED display.

At this point, you can connect to the device via its web GUI, or via the sygnalCONTROL app.

To access the web GUI, ensuring that your computer is on the same network and subnet (or has routes to), enter the IP address in your web browser to access the sygnalTRX GUI.

To connect via the sygnalCONTROL app, ensuring that your computer is on the same subnet, click the + icon in the bottom left of the screen. Now select the discovered device from the list and press "add". Alternatively, you can type in the IP address for the sygnalTRX unit if it is on a different subnet which will mean the automatic discovery will not work.

4 - Use Access point mode to connect to the device directly over wifi, enabling you to configure the signalTRX unit to connect to an existing WIFI network.

Press and hold the "ID" button on the left hand side of the unit until it starts flashing (5 seconds). On your computer/phone/laptop, connect to the wifi network it has just created. The SSID will be its serial number (printed on the base of the unit). The password will be the same as the SSID: its serial number.

This should open a captive portal which displays the web GUI. If it doesn't, visit the IP address shown on the OLED screen on side of the signalTRX unit.

Configure the device how you wish, for example by adding the SSID and password for your wifi network.

To take the device out of access point mode, press the flashing ID button once more. The device will now try and connect to the new network you added.

5 - Use a USB stick to flash a configuration file to the unit (including network connection information), enabling rapid programming of multiple signalTRX units.

Open signalCONTROL. To do this, visit the IP address of a signalCORE or signalGLUE server already on your network, or download the signalCONTROL standalone app on your computer by visiting <https://signal.tv/control>

At the bottom left of the screen, click the '+' icon to add a device, and select virtual device. Select your model of signalTRX unit, and then click "add".

Ensuring you're on the "device" view tab of signalCONTROL, select the virtual device you just made from the list on the left.

On the right hand side of the screen you can create a configuration for the device you wish to add.

For more details on using signalCONTROL, please see the [signalCONTROL manual](#).

Once you have finished creating the configuration, click the "download config" button and save it to the root directory of a FAT32 formatted USB drive.

Safely eject the drive, then plug it into the SIGNAL unit you wish to flash with this configuration. All three buttons will flash once the flash has completed successfully. You may now remove the USB stick.

The unit will now connect to whatever wifi network you configured, and you'll be able to access its GUI by visiting the IP address displayed on the OLED display, or alternatively you may add it to SYGNAL control via its auto discovery or by typing in this IP address.

Accessing the signalTRX Web GUI

Once your signalTRX unit is [connected to the network](#), the GUI can be accessed simply by going to the IP address of the device in a web browser. This is displayed on the OLED display on the side of the device. If your device has multiple IP addresses, for example because it is connected both via WIFI and also by ethernet, both IP addresses will be shown in a scrolling list.

Chromium based browsers (e.g. Google Chrome) are preferred to ensure that all features work perfectly as tested. Mozilla Firefox also works, but with minor UI bugs such as requiring a page refresh to reconnect to a device after it is rebooted.

Adding a signalTRX unit to the device list in signalCONTROL.

If you wish to administer your device via signalCONTROL, rather than directly via the web GUI, first open signalCONTROL. This can be achieved by visiting the IP address of a signalCORE or signalGLUE server, or by downloading and installing the standalone signalCONTROL app from <https://signal.tv/control> .

To add a new device to the device list in signalCONTROL, ensure that you are in the "Device" tab, then click the '+' icon in the bottom left of the screen, at the bottom of the device list. Select 'Signal Device' from the list, and then either select 'add' next to the auto discovered signalTRX unit, or manually type in the IP address of your signalTRX unit. Auto discovery does not work across subnets as it is using bonjour.

Once added, your signalTRX unit can be administered by selecting it from the device list, then configuring it in the configuration pane on the right of the screen.