

DS INSTRUMENTS, LLC
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NETWORK CONFIGURATION



HOW TO SET A STATIC IP ADDRESS

This document describes the procedure to set your own **Static** IP address manually.

For more information, please contact DS Instruments: <http://www.ds instruments.com>.

Product Family:

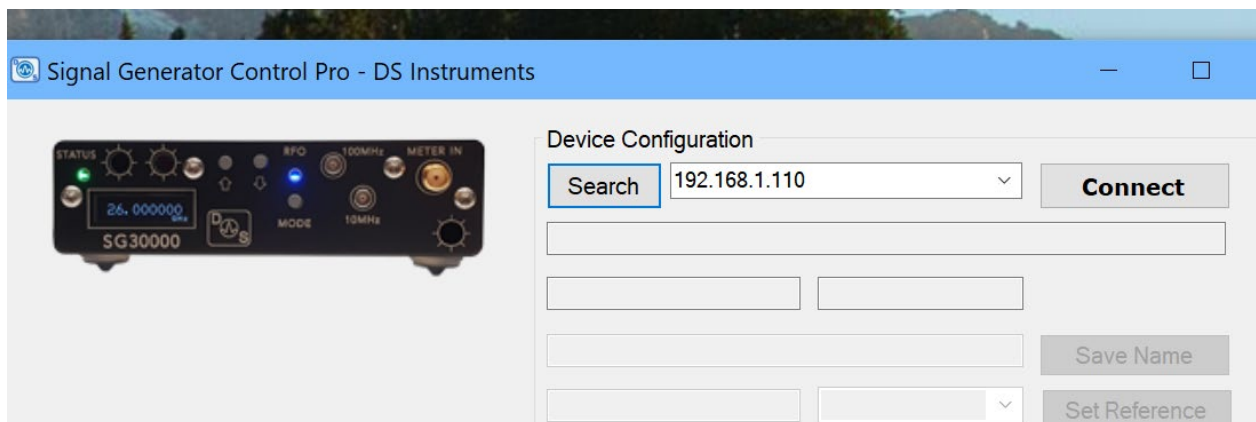
- SGxxxx: Programmable RF Signal Generators
- DATxx: Programmable Digital RF Attenuators
- MX Series: Integrated-LO General-Purpose Microwave Mixers
- SW Series: Wideband Microwave Switch Matrix

Manufacturer:

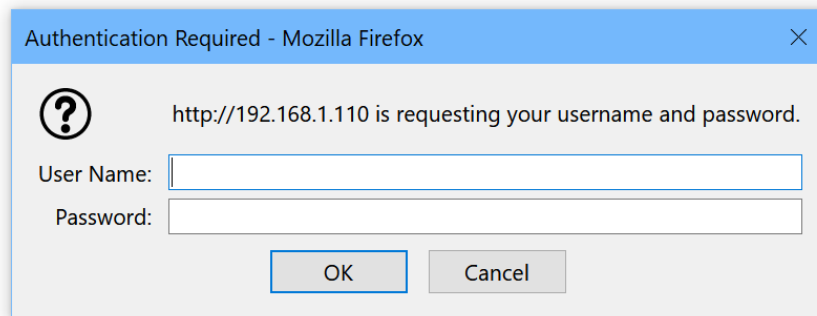
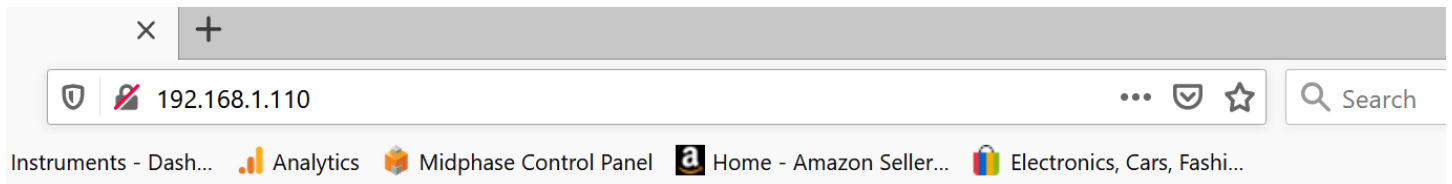
- DS Instruments LLC, Gardnerville, NV 89460, USA

Procedure:

All of our network-enabled devices ship with the default setting of DHCP, getting assigned an IP address from the network router. To access our RF device's configuration interface, it must be assigned this IP address, and then you can access it via a web browser. To find the IP, use our PC control software:



Now that we know the IP address, navigate here using a web browser:



The username and password should be empty, click OK:

Now click Network on the left:

Device Status

Product Information	
Firmware Version:	V6.10.0.3
Build Date:	29-Dec-2017
Network Settings	
MAC Address:	00-80-A3-E2-88-66
Network Mode:	Wired
DHCP HostName:	< None >
IP Address:	192.168.1.110
Default Gateway:	192.168.1.1
DNS Server:	192.168.1.8
MTU:	1400
Line settings	
Line 1:	RS232, 115200, 8, None, 1, None.

Click “Use the following IP configuration” and fill in your settings:

Network Settings

Network Mode: **Wired Only** ▾

IP Configuration

☐ Obtain IP address automatically

Auto Configuration Methods

BOOTP: ☒ Enable ☐ Disable

DHCP: ☒ Enable ☐ Disable

AutoIP: ☒ Enable ☐ Disable

DHCP Host Name:

☒ Use the following IP configuration:

IP Address:

Subnet Mask:

Default Gateway:

DNS Server:

Ethernet Configuration

☒ Auto Negotiate

Speed: ☒ 100 Mbps ☐ 10 Mbps

Duplex: ☒ Full ☐ Half

OK

Click **OK** and THEN CLICK **APPLY SETTINGS**:

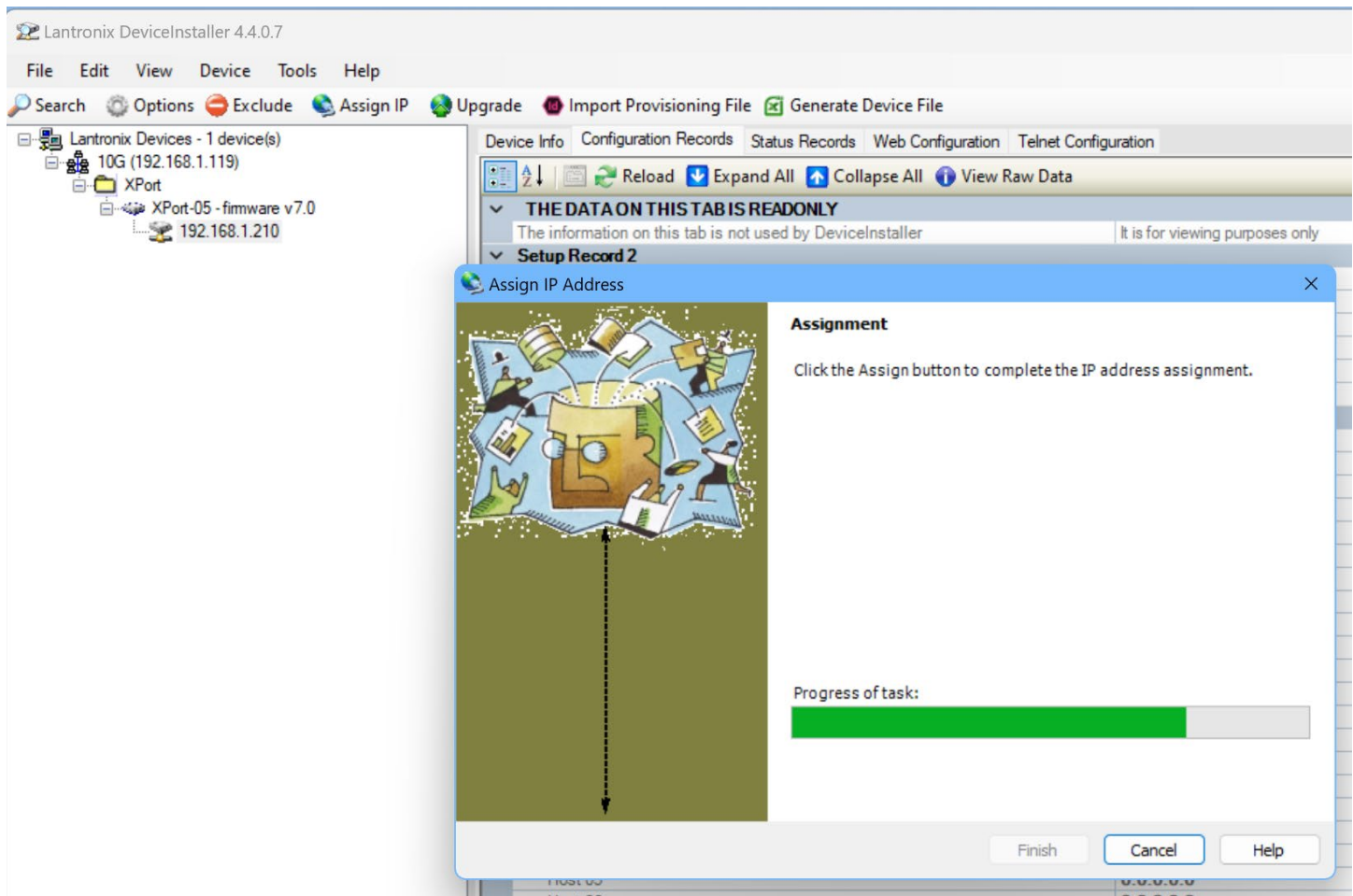
Email	DHCP:
Trigger 1	
Trigger 2	AutoIP:
Trigger 3	
Configurable Pins	DHCP Host Name:
Apply Settings	☒ Use the following
	IP Address:
	Subnet Mask:
Apply Defaults	Default Gateway:
	DNS Server:

Now wait around 60 seconds and then reset your device. It should now have the new IP address saved!

ALTERNATE MEATHOD #1

If the IP address is unknown, lost on another subnet, or there is no DHCP server, we can still edit the device settings via ethernet using the backup tool. This tool uses UDP and broadcasts to find the device without TCP.

Lantronix DeviceInstaller 4.x:



Initially click the **SEARCH** button to find your device, then **ASSIGN IP** to set a static address.

Download Link: <https://www.ds instruments.com/wp-content/uploads/2022/11/DeviceInstaller.zip> or visit our general downloads section!

ALTERNATE MEATHOD #2

A second alternative method to connect to the DSI networked device, is to run a portable freeware local DHCP server to quickly assign a temporary IP.

Some commonly used free servers:

- <https://www.dhcpserver.de/cms/download/>
- <https://sourceforge.net/projects/dhcpserver/>
- <https://pjo2.github.io/tftpd64/>

For more information or questions contact us! Tech@DSInstruments.com

