

A NetX X-Series IP Thermostat can be configured for direct connection (DirectConnectTM) for local area network (LAN) use, with or without a LAN installed at the time of setup. All you need is a computer with an Ethernet port and an Ethernet patch cable.

⚠ **ATTENTION: DO NOT INSTALL** the thermostat until you have all the necessary network information.

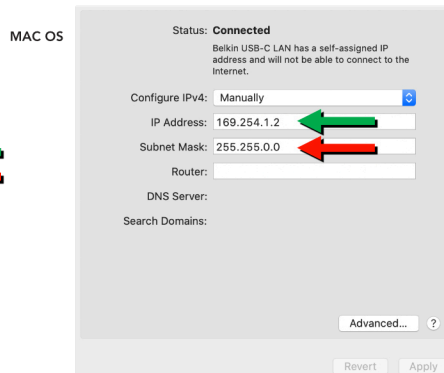
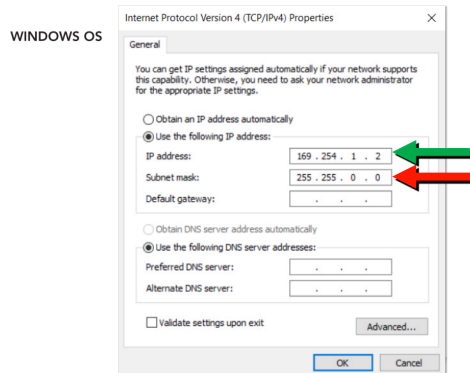
STEP 1: INSTALL THE THERMOSTAT BACKPLATE

Turn off the power to the HVAC unit and follow the detailed instructions included with the thermostat. Make sure the wires are connected to the correct terminals. In addition to the thermostat wires, there are three (3) wires from the Backplate. Connect the RED wire to the R terminal (along with the Red wire in the thermostat cable), the BLACK wire to the 24(c) terminal (along with the common wire in the thermostat cable), and the WHITE wire to the X1 terminal. These wires are shipped in the proper locations and are noted here for completeness.



STEP 2: SET YOUR COMPUTER FOR AD HOC MODE

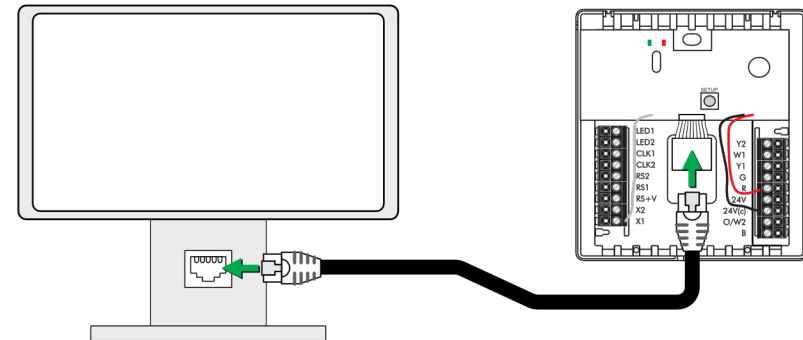
1. Disconnect your computer from your existing network.
2. Setup your computer's Network Settings as follows
 - IP 169.254.1.2 (Green Arrow)
 - Subnet 255.255.0.0 (Red Arrow)



NetXTM DirectConnectTM Local Area LAN Configuration Guide

STEP 3: CONNECT COMPUTER DIRECTLY TO THERMOSTAT

Plug in an ethernet cable directly between your computer and the thermostat (it will auto-detect with or without a crossover cable)



Once the thermostat is connected to your network, the backplate LEDs will indicate the following status:

Green LED (Network Connection Indicator):

Blinking: This indicates the Backplate is in Ad Hoc Mode

Red LED (Faceplate Connectivity Indicator):

Solid: The backplate is powered.

🔧 **NOTE:** If both LEDs are not on, refer to the troubleshooting section of this instruction sheet.



STEP 4: INSTALL THE THERMOSTAT ONTO THE BACKPLATE

Follow the instruction guide to install the thermostat onto the backplate.

STEP 5: CONFIGURE THERMOSTAT CREDENTIALS

Browse to 169.254.1.1 (Thermostat default when not on a network)

Create and add your username and password for the thermostat. Click on the "Save Credentials" button to save your information. You will be taken to the login page for the thermostat.

Log in to the thermostat and proceed to **Step 6**.

STEP 6: UPDATE NETWORK SETTINGS ON THERMOSTAT

1. Click on the "Configuration" menu bar link on the upper right
2. Click the "Network Settings" Button on the right side of the page

The screenshot shows the 'Network Settings' page in the thermostat's configuration menu. The page has a dark blue header with 'NT network thermostat' and 'NETX-IP' logos. Below the header is a navigation bar with 'Status / Update', 'Schedules', 'Events', 'Weather', and 'Configuration'. The 'Configuration' tab is selected. The 'Network Settings' section is active, showing various fields. Red numbered callouts are placed over the page: 3 points to the 'Enable DHCP' checkbox, 4 points to the 'IP Address' field, 5 points to the 'Gateway Address' field, 6 points to the 'Subnet Mask' field, 7 points to the 'Primary DNS' field, 8 points to the 'Secondary DNS' field, and 9 points to the 'Save & Reboot' button at the bottom. On the right side, there is a vertical list of buttons: 'Basic Config', 'HVAC Settings', 'Date/Time Settings', 'Alert Settings', 'Sensor Settings', and 'Help'.

Field	Value
MAC Address	00:00:00:00:00:00
HTTP Port	80
ASCII Port	10001
Enable Login	<input checked="" type="checkbox"/>
Enable DHCP	<input checked="" type="checkbox"/>
IP Address	169.254.1.1
Gateway Address	169.254.1.1
Subnet Mask	255.255.0.0
Primary DNS	169.254.1.1
Secondary DNS	0.0.0.0

3. Un-click the "Enable DHCP" to set your static IP information
4. Add the static IP address of the thermostat here
5. Add the Gateway address
6. Add the Subnet Mask
7. Add the Primary DNS
8. Add the Secondary DNS
9. Click the "Save and Reboot" button

STEP 7: CONNECT THERMOSTAT TO LOCAL NETWORK

The screenshot shows the 'Reboot In Progress...' screen. It has a dark blue header with 'NT network thermostat' and 'NETX-IP' logos. The main content area is white with a blue border. It contains the following text: 'Reboot In Progress...', 'Your settings were successfully saved, and the thermostat is now rebooting to configure itself with the new settings.', 'When the Reboot is Complete:', 'Your new configuration uses DHCP (automatic IP address assignment from the router). The best way to locate your thermostat for further use or configuration is to use the Net/X Device Explorer tool. [Net/X Device Explorer](http://www.networkthermostat.com/software/NetX_Device_Explorer.msi) (www.networkthermostat.com/software/NetX_Device_Explorer.msi)', and 'If your browser is not able to connect to the thermostat, please use the Net/X Device Explorer to locate your thermostat on the network and connect to it.'

While the thermostat is rebooting, disconnect your computer from the thermostat. Reconfigure your computer to join its regular network. You can now connect your thermostat to its new network when it is operational.

STEP 8: VALIDATE IP ADDRESS

When your new network is available, use your browser and connect to the IP address you set **Step 6**. If you see the login page, you are all set. If not, refer to the Troubleshooting Guide on the next page.

< — Troubleshooting on next page — >

TROUBLESHOOTING

Here is a chart showing the Green and Red LED status.

	Green LED (Network Connection Indicator)	Red LED (Faceplate Connectivity Indicator)
ON:	Backplate is connected to your router	Backplate is not communicating with the Faceplate (the Faceplate is not on the Backplate) since last backplate reset.
BLINKING:		Faceplate is removed and has communicated with the backplate since the last backplate reset.
OFF:	No network connection from a 'reboot', the Green LED will remain off until the Backplate makes a connection to the router with valid security credentials.	There is no power connected to the backplate.

RECOVERY MODES

There are two options for recovery mode: Soft Reset and Factory Reset. Soft Reset only changes your network settings while all other settings are retained. Factory reset, removes all your changes and returns your IP Backplate to it original factory configuration. See below how to use each reset.

Soft Reset

Press and hold the SETUP button (yellow arrow) for 10 seconds. When both the Green LAN LED (green arrow) and Red STAT LED (red arrow) flash together, release the SETUP button and the IP Backplate will remove the network settings and reboot. Follow the instructions in **STEP 6** above to configure your IP Backplate.

NOTE: This reset maintains your current username and password.

Factory Reset

Press and hold the SETUP button (yellow arrow) until both the Green LAN LED (green arrow) and Red STAT LED (red arrow) flash together, release the SETUP button. While the LEDs are flashing simultaneously, press the SETUP button with three short presses and the IP Backplate will remove ALL programming and reboot. Follow the instructions in **STEP 2** through **STEP 6** above to configure your IP Backplate.

