Wireless Bridge Configuration for Lantronix SGX5150

Introduction

A Wireless Bridge (Ethernet to Wi-Fi Adapter) can be used to connect an IQNCCEN Ethernet Communication Cartridge to a wireless network. This eliminates the need for the satellite controller to be physically wired to a network router or switch for communication with IQ.

NOTE: Port Forwarding must be configured on the router if using IQ-Cloud. Refer to the IQ™ Central Control System Port Forwarding Instructions document. Port Forwarding is not required for IQ-Desktop or IQ-Enterprise.

The following information is required for setup:

- **SSID** (wireless network name) of the site wireless network
- Network **Passphrase**
- **Static or Reserved IP Address** for the IQ satellite on the network
- **MAC Address** of the IQNCCEN Ethernet Cartridge (see label)

**Lantronix SGX5150000US (v8.1 or higher) IoT Device Gateway Setup**

1. **Attach the 2 provided antennas** (or an external antenna) to the Gateway.

2. **Plug in the provided USB cable into the Gateway and to a USB Power Supply** (not provided). Alternatively, use a **9-30VDC Power Supply** with barrel connector (not supplied).

3. **Use a computer to connect to the Gateway’s Wi-Fi. The SSID is SGX5150_* (* is the Gateways 12-digit serial number).**

![Wireless Network Connection](image)

4. From the computer browser connect to **192.168.0.1** and log in using the following default credentials. The credentials are case sensitive.
   - USER ID = **admin**
   - PASSWORD = **PASS** then press **Log In**

![Authentication Required](image)
5. In the **Quick Setup** screen **Bridge 1 Configuration** section make the following changes:
   a) Set **Bridge State** to **Enabled**.
   b) Set **Transparent Mode** to **Enabled**.
   c) Enter the **IQNCCEN Ethernet Cartridge MAC Address** in the **Bridging MAC Address** field.
   d) Set the **Bridging IP Address Auto Detect IPv4 Address** to **Disabled**.
   e) Enter the **network IP Address** assigned to the **IQNCCEN Ethernet Cartridge** in the **Bridging IP Address** field.
   f) Retain all other default settings.

6. In the **Available Networks** section:
   a) Choose the **site Wi-Fi SSID** name from list of available networks then enter the network **Passphrase**.
   b) Click **Submit** to save the configuration and complete the SGX5150 Quick Setup.

7. Use the **IQ NCC Configurator Software** and supplied cables to configure the IQNCCEN Ethernet Cartridge. See NCC Configurator Instructions.
   a) Enter the **Network IP Address** assigned to the IQNCCEN Ethernet Cartridge (same IP Address used in step 5e).
   b) Enter the **Subnet Mask, Gateway, and Port** and send to the cartridge.