

Flex Wi-Fi Setup Guide

Overview

The FLeX controller can optionally include an integrated Wi-Fi adapter. This adapter serves as a Wi-Fi access point, allowing the controller to be accessed via Wi-Fi from a PC or other device.

The Wi-Fi adapter internally connects Wi-Fi to the Ethernet 2 interface in the controller.

Connecting to the Wi-Fi Adapter

The Wi-Fi adapter is intended to be used for temporary access to the controller. It is therefore always disabled by default when the controller is first powered up. To enable the Wi-Fi adapter, use a pointed device such as the tip of a pen or pencil to press the inset On/Off switch on the face of the controller. The Wi-Fi adapter will then remain on until manually turned off, or until the controller is powered off. For security reasons, it is recommended to turn the Wi-Fi adapter off when you are finished using it.

To connect to the Wi-Fi adapter:

1. Turn on the Wi-Fi adapter on the controller as described above. The "Status" LED will illuminate to indicate that Wi-Fi is active.
2. From your PC or other device, go to the Wi-Fi settings and connect to the FLeX Wi-Fi network. Default settings:
 - a. SSID: FLeX_0080a3xxxxxx (where the number is the MAC address of the Wi-Fi adapter, so it is unique for each controller)
 - b. Password: McCainFLeXController9242

Configuring the Wi-Fi Adapter

The Wi-Fi is a "managed" device with it's own features and configuration, similar to a modern Wi-Fi router.

The configuration interface is accessible via a web browser. Documentation is available here.

https://www.lantronix.com/wp-content/uploads/pdf/PremierWave-2050_UG.pdf

To access the configuration interface:

1. Connect to the Wi-Fi adapter as described above.
2. Using a web browser, browse to the IP address of the Wi-Fi adapter (Default: 192.168.0.1)
3. Login to the management console. Default credentials:
 - a. Username: admin
 - b. Password: PASS

Wi-Fi Adapter Firmware

Warning: Do not install the firmware available from the Lantronix website. The Wi-Fi adapter should only use firmware provided by McCain.

Early prototype controllers may not have received the correct Wi-Fi adapter firmware during production. You can check the firmware version using the following procedure. If the Wi-Fi adapter does not have the correct firmware, the controller will need to be returned to McCain.

To check the firmware version:

1. Connect to Wi-Fi adapter and login to the configuration interface as described above
2. After logging in to the configuration interface, a status page should be displayed similar to the image below. Note the "Firmware Version"
3. If the Firmware Version is not 8.1.0.0R8, then the controller needs to be returned to McCain to install the correct firmware.

PremierWave® 2050 [Help](#) [Logout](#)

Status Network Filesystem Diagnostics Administration

Device

Product Information

Product Type:	Lantronix PremierWave 2050 (PW2050)
Firmware Version:	8.1.0.0R8
Lantronix IoT Gateway OS Version:	1.0
Radio Firmware Version:	1.141.79/6.37.42.11
Build Date:	Apr 10 14:37:47 PDT 2017
Serial Number:	0080A3B0988A
Uptime:	0 days 20:33:16
Current Date/Time:	Mon Jan 01 21:05:34 UTC 2007
Permanent Config:	Saved
Region:	United States
Access Point:	Enabled
WiFi Direct GO Mode:	Disabled

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Omni Web Interface

The Wi-Fi adapter can be used to access the web interface in the Omni eX signal control software. To enable this, you just need to assign an IP address to Ethernet 2 as follows.

1. On the front panel of the controller, navigate to page A.2 and select ETHERNET 2
2. Set IP address to something in the range 192.168.10.10 – 192.168.10.254 (Default)
3. Set netmask to 255.255.255.0
4. Set gateway to 192.168.10.1 (Default)
5. Commit these changes to the database
6. In your web browser, browse to the IP address that you set in step 2 above. The Omni web interface should then be displayed.