



EAD-02W SP Quick Start

Introduction

Use this Quick Start guide as a reference to install and configure. will step you through hardware installation and configuration.

Wireless Connection Using Internal Soft AP

1. Once power and antenna is connected, turn on the EAD-02W SP.

By default the Soft AP mode is enabled with a default SSID of "XpicoWiFi_XXXXXX".

Where XXXXXX are the last six characters of the unique xPico Wi-Fi MAC address. This MAC Address is available on the box label. For example if the MAC Address on label is 0080A398010E then the SSID would be XpicoWiFi_98010E.

2. Using the Wi-Fi Connection Manager of your connecting device the above SSID should be presented as an available connection choice. Select the SSID and follow the device connection manager instructions to continue to connect. The default security for xPico Wi-Fi SoftAP is WPA2 and the passphrase is XPICOWIFI. These defaults can be changed through the configuration web manager after the initial connection has been established.
3. When prompted enter the passphrase to complete the Wi-Fi connection authentication process. With a Wi-Fi client set to the above parameters, your device can connect directly to the xPico Wi-Fi Soft AP.
4. Open a standard browser (E.g. Internet Explorer®, Firefox®, Chrome™, Safari® etc.) and in the address field of the browser enter the following URL;

xpicowifi.lantronix.com or alternatively use 192.168.0.1 as the IP Address.



5. When prompted enter the username of `admin` and password `PASSWORD` to access the Configuration and Management Web pages as shown below.

The screenshot shows the xPico Wi-Fi web interface. The left sidebar contains navigation options: QuickConnect, Status (selected), Filesystem, HTTP, Line, Network, System, Tunnel, and WLAN Profiles. The main content area is divided into sections: Product Information, Network Settings, and Line Settings.

Product Information	
Product Type:	xPicoWifi
Firmware Version:	1.0.0.0R5
Build Date:	Jun 12 2013 (17:01:35)
Serial Number:	0080A398010B
Uptime:	0 days 02:44:43
Permanent Config:	saved

Network Settings	
Interface (ap0)	
State:	Up
SSID:	XpicoWifi_98010B
Security Suite:	WPA2
IP Address:	192.168.0.1
Interface (wlan0)	
Connection State:	Connected
Radio Firmware Version:	2.2.1
Active WLAN Profile:	skynet
IP Address:	172.19.100.89/16
Default Gateway:	172.19.0.1
Hostname:	
Primary DNS:	172.19.1.1
Secondary DNS:	172.19.1.2
Line Settings	
Line 1:	9600, None, 8, 1, None Tunnel
Line 2:	9600, None, 8, 1, None Trouble Log
Tunneling	
Tunnel 1:	Accept Mode

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By clicking **Network > Network 1 > Link** to get to the **Configuration** page, the SSID, Security Suite Type and Security and passphrase can be modified. Modification to any of these parameters requires a reset/power cycle of the module in order to take effect.

The screenshot shows the xPico Wi-Fi web interface for the Access Point (ap0) Configuration page. The left sidebar is the same as in the previous screenshot. The main content area has tabs for Network 1 and Network 2, and sub-tabs for Interface and Link. The Configuration sub-tab is active.

This page shows configuration of an Access Point on the device. Settings will take effect after reboot. Use the Submit button to save Access Point settings to flash permanently.

Access Point (ap0) Configuration	
Network Name (SSID):	<Default>
Channel:	1
Suite:	WPA2
Encryption:	<input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP
Passphrase:	*****

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It is recommended that you record any changes you make.

SSID: _____
 Security Suite: _____
 Encryption: _____
 Passphrase: _____

QuickConnect

Quick Connect offers the ability to configure the STA (WLAN Client) interface on xPico WiFi to establish connection to an active Access Point.

QuickConnect learns most of the connection properties from the available Access Points and prompts the user only for the security parameters and saves the settings under a corresponding new/existing WLAN profile for future autonomous operation of the WLAN Client interface.

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QuickConnect

Status

Filesystem

HTTP

Line

Network

System

Tunnel

WLAN Profiles

WLAN Link Scan

Network name:

Network Name	BSSID	Ch	RSSI	Security Suite
Lantronix Guest	00:0B:85:52:FF:1B	1	-24 dBm	WPA-TKIP
LantronixWPA	00:0B:85:52:FF:1D	1	-25 dBm	WPA-TKIP
LantronixVoice	00:0B:85:52:FF:1C	1	-26 dBm	WEP
Mart	30:46:9A:F9:A9:03	3	-40 dBm	WPA2-CCMP
vader	C0:8A:DE:B1:0B:B9	10	-44 dBm	WPA2-CCMP
wpa2_subha	C0:8A:DE:71:0B:B8	10	-44 dBm	WPA2-CCMP
wpa_lki	C0:8A:DE:04:0B:B8	10	-44 dBm	WPA-TKIP

This page shows a scan of the wireless devices within range of the device. Up to 20 networks sorted by RSSI are shown. It reports: Network name (Service Set Identifier), Basic Service Set Identifier, Channel number, Received Signal Strength Indication and Security Suite

Click on any network name for QuickConnect configuration.

When the selected Access Point profile displays, enter the password and click **Submit** to directly connect to the Access Point and to add the profile and configuration details to the WLAN profiles.

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QuickConnect

Status

Filesystem

HTTP

Line

Network

System

Tunnel

WLAN Profiles

WLAN Profile "Lantronix_Guest"

Connect To:

Network Name (SSID):	Lantronix Guest
BSSID:	00:0B:85:52:FF:1B
Security Suite:	WPA-TKIP
Signal Strength:	-24 dBm

Security Configuration

Key Type:	<input checked="" type="radio"/> Passphrase <input type="radio"/> Hex
Password:	<input type="text"/>

> Advanced Configuration

This page shows configuration of a WLAN Profile on the device.

In the **Security Configuration** section, choice of **Suite**, **Key Type** and **Authentication** affect the makeup of other configurables in that section.

In the **Advanced Configuration** section, if **Power Management** is enabled, specify the **Power Management Interval**.

Use the **Apply** button to try out settings on the WLAN without saving them to Flash. If the settings do not work, when you reboot the device, it will still have the original settings.

Use the **Submit** button to both update the WLAN settings and save them to Flash.

If the device is connecting to an access point on a different wireless channel, current connection to the soft AP interface of the device may be dropped due to the switch of channel. Reconnect to the soft AP interface in order to continue access to the device.

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Once added, the Quick Connect profile is connected and is accessible and configurable through WLAN Profiles.

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QuickConnect
 Status
 Filesystem
 HTTP
 Line
 Network
 System
 Tunnel
WLAN Profiles

WLAN Profiles

View or Edit: **Lantronix Guest (Dynamic)**

Delete: Enabled:

Create new profile:

This page allows view, edit, delete or creation of a WLAN Profile on the device.
 Select a profile for editing by clicking the page icon; this takes you to the Configuration web page.
 icon indicates the active profile.
 Enable/Disable/Delete one or more profiles by updating the appropriate checkboxes.
 Use the Apply button to try out the profiles without saving them to Flash. If the settings do not work, when you reboot the device, it will still have the original settings.
 Use the Submit button to both update the profiles and save them to Flash.
 Use the Cancel button to clear out changes that have not been applied.
 Create a new profile by entering a name in the text box, then click the Submit button which will appear. The new profile is initially saved with default parameter values.

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Click the new WLAN profile to view and modify settings.

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QuickConnect
 Status
 Filesystem
 HTTP
 Line
 Network
 System
 Tunnel
WLAN Profiles

WLAN Profile "skynet"

Basic Configuration

Network Name (SSID):

State: Enabled Disabled

Security Configuration

Suite:

Key Type: Passphrase Hex

Password:

Encryption: CCMP TKIP

Advanced Configuration

TX Power Maximum: dBm

Power Management: Enabled Disabled

This page shows configuration of a WLAN Profile on the device.
 In the Security Configuration section, choice of Suite, Key Type and Authentication affect the makeup of other configurables in that section.
 In the Advanced Configuration section, if Power Management is enabled, specify the Power Management Interval.
 Use the Apply button to try out settings on the WLAN without saving them to Flash. If the settings do not work, when you reboot the device, it will still have the original settings.
 Use the Submit button to both update the WLAN settings and save them to Flash.
 If the device is connecting to an access point on a different wireless channel, current connection to the soft AP interface of the device may be dropped due to the switch of channel. Reconnect to the soft AP interface in order to continue access to the device.

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Reference Documentation

For more information on the use and operation of the xPico Wi-Fi Device Server please refer to the latest product documents which are available on the Product Website. www.lantronix.com/support/documentation.