FLEXIBLE, MOBILE-READY, WI-FI® SOLUTION FOR M2M AND IOT APPLICATIONS ON RASPBERRY PI®

Lantronix has now enabled easy integration of its xPico® Wi-Fi® embedded device server with the popular Raspberry Pi® single board computer — all in a simple, easy-to-use pluggable expansion board. Now developers can enjoy a robust and feature-rich Wi-Fi solution that enables mobile ready capabilities in a quick and easy manner.

**Advanced Wi-Fi Features for Raspberry Pi**
Lantronix xPico Wi-Fi Pi Plate for Raspberry Pi completely offloads Wi-Fi connectivity, with support for mobile ready advanced features such as simultaneous Soft Access Point (Soft AP) and Client mode, Wi-Fi connection management and QuickConnect.

Managing these features via a simple configuration interface enables developers to focus on their main applications for Raspberry Pi without worrying about wireless stacks and wireless connectivity management.

**Combine xPico Wi-Fi & Raspberry Pi – Easily Wi-Fi Enable Your Design**
The Lantronix xPico Wi-Fi Pi Plate augments and simplifies use and flexibility of the platform while providing the Raspberry Pi with a robust true 802.11 b/g/n solution that easily enables Wi-Fi access either as a client or as a Soft Access Point. With many other features the product’s industrial-ready quality and ease-of-use allows engineers, students and hobbyists to rapidly mobile enable their platform while offloading the TCP/IP stack and networking applications like a web server to the xPico Wi-Fi.

With the integration of the Lantronix xPico Wi-Fi embedded device server with Raspberry Pi, enabling Wi-Fi connectivity is easier than ever. Prototyping with the Lantronix xPico Wi-Fi Pi Plate for Raspberry Pi is quick and simple, whether you’re a technology hobbyist, design engineer, student, or professor.
Features and Specifications

> Wireless LAN Interface
  - IEEE 802.11 b/g and IEEE 802.11n (single stream)
  - WLAN interface (2.4 GHz only)
  - u.FL connector for external antenna

> Serial Interface
  - A serial CMOS Port (3.3V, 5V tolerant)
  - 300 to 921.6 Kbps
  - Lantronix tunneling application

> SPI Interface
  - 30 MHz clock

> Network Protocols
  - TCP/IP, UDP/IP*, DHCP, ARP, ICMP, DHCP, Auto-IP, DNS

> Networking Capabilities
  - Soft Access Point with DHCP Server
  - Simultaneous Soft AP and Client modes
  - QuickConnect: Dynamic Profiles facilitate easy and rapid connections to access points.
  - WLAN Profiles: connect to multiple wireless networks

> Software Applications
  - Lantronix Tunnel Application: Enables easy serial port data access over the TCP/IP Network
    - Transparent Tunneling mode
    - Modem Emulation mode
  - SNTP Support: Presents current date and time to Arduino applications
  - HTTP web services API: For remote configuration and control
  - Web Enable Arduino application data via the point and click Explorer utility
  - File System

> Management and Control
  - Web Server - Landing Page
  - CLI (Serial Monitor Port)
  - XML Import and Export (XCR)
  - Field upgradable firmware (OTA)

> Security
  - IEEE 802.11i Support – WPA-Personal, WPA2-Personal
  - 256-bit AES Encryption*

> Power
  - Input Voltage: 3.3VDC
  - Low power consumption of approximately 6µA standby

> Environmental
  - Operating Temperature: –40° to +85° C
  - Relative Humidity: 0% to 90% non-condensing

> Certifications
  - FCC Class B, UL and EN EMC

> Warranty
  - 1-Year Limited - xPico Pi Plate

*Available through future firmware update

Other members of the xPico product family:

xPico Wi-Fi for Freescale Tower Module System

xPico Wi-Fi Shield:
Full featured Wi-Fi device server module for robust and ease of use for the popular Arduino.

xPico
A chip-sized networking solution that enables Ethernet connectivity on virtually any device.

Ordering Information

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<td>XPCW1001000RP-K</td>
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<td>XPW1001000-01</td>
<td>xPico Wi-Fi– IEEE 802.11 b/g/n Device Server Module, Extended Temp, Bulk, RoHS</td>
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<td>XPW100100S-01</td>
<td>xPico Wi-Fi– IEEE 802.11 b/g/n Device Server Module, Extended Temp, Sample, RoHS</td>
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<td>XPW100100K-01</td>
<td>xPico Wi-Fi– IEEE 802.11 b/g/n Device Server Evaluation Kit w/ xPico Wi-Fi Module, RoHS</td>
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