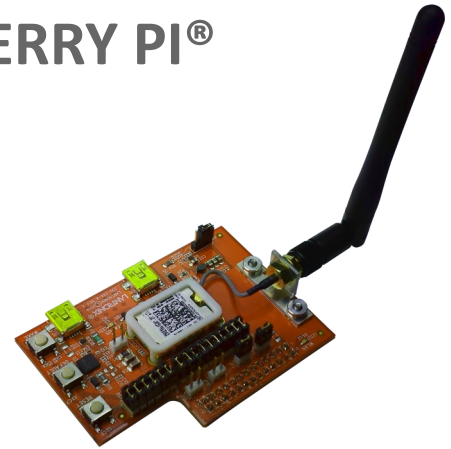




## FLEXIBLE, MOBILE-READY, Wi-Fi SOLUTION FOR M2M AND IOT APPLICATIONS ON RASPBERRY PI®

Lantronix has now enabled easy integration of its xPico® Wi-Fi embedded device server with the popular Raspberry Pi® single board computer — all in an 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.

### Make Your Applications Mobile-ready!

Reduce your development costs, shorten your time to market, and leverage mobile solutions using simple configuration with xPico® Wi-Fi®, one of the world's smallest and most flexible Wi-Fi device servers.

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.

### xPico® Wi-Fi® Raspberry Pi® Plate Highlights:

- Compatible with Raspberry Pi®
- Simple and easy to use interface
- xPico® Wi-Fi module with integrated software
  - ⇒ Mobile-ready, with simultaneous client and software access point (AP) mode
  - ⇒ Advanced wireless features such as Wireless Connection Manager, Profiles, and QuickConnect
  - ⇒ Low power (6 µA Standby)
  - ⇒ Full TCP/IP stack and Web Application Server

### xPico® Wi-Fi Highlights:

- IEEE 802.11 b/g/n (2.4 GHz)
- Multiple Interface Choices; including Serial Port (921 kbps), SPI with clock rate of 30MHz
- Extended Temperature : -40° to +85° C
- 5-Year Limited Warranty

## 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 Ports (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
- Lantronix SmartRoom™ Technology continually tracks Wi-Fi signal strength within range, along with pre-authentication and caching resulting in smooth and automatic transition to access points without delay.
- QuickConnect: Dynamic Profiles facilitate easy and rapid connections to access points.

### > 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
- 5-Year Limited xPico Wi-Fi device

## Other members of the xPico product family:

**xPico Wi-Fi Tower Module** for Freescale Tower System.

**xPico Wi-Fi Arduino 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

### United States

Call: 800.422.7055

Email: sales@lantronix.com

Buy Online: <http://www.lantronix.com>

### Asia/Pacific

Call: +852 3428.2338

Email: asiapacific\_sales@lantronix.com

### China

Call: +86.021.6237.8868

Email: Shanghai@lantronix.com

### Europe

Call: +31 (0) 76.52.3.6.74 4

Email: EMEA@lantronix.com

### Japan

Call: +81.3.6277.8802

Email: japan\_sales@lantronix.com

### > Part Number

### > Description

XPCW1001000RP-K	xPico Wi-Fi IEEE 802.11 b/g/n Device Server Raspberry Pi Plate: w/ xPico Wi-Fi Module, RoHS, Raspberry Pi computer board not included
XPW1001000-01	xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Module, Extended Temp, Bulk, RoHS
XPW100100S-01	xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Module, Extended Temp, Sample, RoHS
XPW100100K-01	xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Evaluation Kit w/ xPico Wi-Fi Module, RoHS
XPC100A001	xPico Module Mounting Quick Clip Bulk pack(50 pc) (Extra clip)

\* Available through future firmware update

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