The Lantronix® xPico® Wi-Fi® Shield is a perfect match for your Arduino® microcontroller board. Wi-Fi connectivity for your Internet of Things (IoT) projects can be performed quickly and easily with the Lantronix xPico Wi-Fi Shield.

**Arduino – Easy & Flexible Development Environment**
Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. A single-board microcontroller, the Arduino platform is intended to make the application of interactive objects or environments more accessible.

**xPico Wi-Fi - Mobile-Ready Wi-Fi Solution**
The Lantronix xPico® Wi-Fi® embedded device server is one of the world's smallest and most flexible Wi-Fi device servers. The xPico Wi-Fi module is a pin and form factor compatible state-of-the-art member of the Lantronix xPico family, providing low power, Soft AP and simultaneous client mode, full IP and WLAN stacks. As a true IEEE 802.11 b/g/n compliant Wi-Fi solution, the xPico Wi-Fi module ensures highest speed operation for all WLAN networks. The xPico Wi-Fi device server is a great choice when developing mobile enabled M2M applications.

**Combine xPico Wi-Fi & Arduino – Easily Wi-Fi Enable Your Design**
The Lantronix xPico Wi-Fi Shield retains the simplicity and flexibility of the Arduino platform while augmenting the Arduino microcontroller boards with Wi-Fi connectivity. The product’s industrial-ready quality and ease-of-use allows engineers, students and hobbyists to rapidly add both Wi-Fi client and soft access point (Soft AP) capabilities, while offloading the TCP/IP stack and networking applications like a web server to the xPico Wi-Fi.

**xPico Wi-Fi Shield Highlights:**
- Compatible with the Arduino open-source hardware platform
- Simple and easy to use interface
- xPico Wi-Fi module with integrated software
  - Mobile-ready, with simultaneous client and software access point (AP) mode
  - Integrated connection manager
  - IEEE 802.11 b/g/n (2.4 GHz) compliant
  - Low power (6 µA Standby)
  - Full TCP/IP stack and Web Application Server
  - Multiple interface choices, including Serial Port (921 kbps), SPI with clock rate of 30MHz
- Extended temperature: -40° to +85° C
- 1-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)
  • IEEE 802.11 d/h/j/k/w/t
  • u.FL connector for external antenna

> Serial Interface
  • A serial CMOS Port (3.3V, 5V tolerant)
  • 300 to 921.6 Kbps

> 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 Wi-Fi Shield

*Available through future firmware update

Other members of the Lantronix xPico Embedded Device Server product family:

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

**xPico Wi-Fi Pi Plate**
Full featured Wi-Fi device server module for robust and ease of use for the popular Raspberry Pi® single board computer.

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

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**Ordering Information**

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<th>Country</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>Call: 800.422.7055 Email: <a href="mailto:sales@lantronix.com">sales@lantronix.com</a> Buy Online: <a href="http://www.lantronix.com">http://www.lantronix.com</a></td>
<td>NASDAQ: LTRX</td>
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<tr>
<td>Asia/Pacific</td>
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<tr>
<td>Europe</td>
<td>Call: +31 (0) 76.52.3.6.74 4 Email: <a href="mailto:EMEA@lantronix.com">EMEA@lantronix.com</a></td>
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<tr>
<td>Japan</td>
<td>Call: +81.3.6277.8802 Email: <a href="mailto:japan_sales@lantronix.com">japan_sales@lantronix.com</a></td>
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<tr>
<td>China</td>
<td>Call: +86.021.6237.8868 Email: <a href="mailto:Shanghai@lantronix.com">Shanghai@lantronix.com</a></td>
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<tr>
<th>Part Number</th>
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<tr>
<td>XPCW1001000AR-K</td>
<td>xPico Wi-Fi IEEE 802.11 b/g/n Device Server Shield w/ xPico Wi-Fi Module, RoHS, Arduino computer board not included</td>
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<td>XPW1001000-01</td>
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<td>XPW100100S-01</td>
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<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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<td>XPC100A001</td>
<td>xPico Module Mounting Quick Clip Bulk pack(50 pc) (Extra clip)</td>
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