![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

FLEXIBLE, MOBILE-READY, WI-FI® SOLUTION FOR ARDUINO® BASED M2M AND IOT APPLICATIONS

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

LANTRONIX®
CONNECT SMART. DO MORE.™

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/i/j/k/w/r
- 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.

Ordering Information

United States
Call: 800.422.7055
Email: sales@lantronix.com
Buy Online: http://www.lantronix.com
NASDAQ: LTRX

Europe
Call: +31 (0) 76.52.3.6.74 4
Email: EMEA@lantronix.com

Asia/Pacific
Call: +852.3428.2338
Email: asiapacific_sales@lantronix.com

Japan
Call: +81.3.6277.8802
Email: japan_sales@lantronix.com

China
Call: +86.021.6237.8868
Email: Shanghai@lantronix.com

> Part Number	> Description
XPCW1001000AR-K	xPico Wi-Fi IEEE 802.11 b/g/n Device Server Shield w/ xPico Wi-Fi Module, RoHS, Arduino 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)