



THE MOST FLEXIBLE, MOBILE-READY, Wi-Fi® SOLUTION FOR M2M AND IOT APPLICATIONS

Reduce your development costs, shorten your time to market, and leverage mobile solutions with xPico® Wi-Fi®, one of the world's smallest and most flexible Wi-Fi device servers. xPico Wi-Fi is a pin and form factor compatible state-of-the-art member of the xPico family, providing low power, Soft AP and simultaneous client mode, full IP and WLAN stacks. The xPico Wi-Fi is a complete device server suitable for mobile M2M applications and includes industry best 5-year warranty.

Tablet & Smartphone Enable Your Devices

Access your data and devices from anywhere – wired or wireless. Lantronix® industry-proven device server application and protocol stacks enables seamless remote access to device data, simplifying design integration, all while providing robust connectivity – including the ability to access data from any mobile device, including smartphones and tablets.

Robust Networking Solution

Lantronix' xPico Wi-Fi is an extremely compact, low power networking solution that enables wireless LAN connectivity on virtually any solution with a SPI, USB (device) or serial interface.

Simultaneous Access Point & Client Mode

The xPico Wi-Fi is a state-of-the-art solution that offers all the functions one can expect including a unique simultaneous Soft-AP and client mode. This allows for easy points of access while maintaining a secure network connection.

Flexibility

All members of the xPico product family use the same pin compatible interface, providing unmatched flexibility whether it is Wi-Fi or Ethernet when it comes to choosing the right network device for your application.

Cost Savings & Faster Time-To-Market

As one of the smallest embedded device servers in the world, xPico Wi-Fi can be utilized in designs typically intended for chip solutions, befitting in advantages to cost and time-to-market. Its “zero host load” eliminates any need for drivers on the connected microcontroller making implementation easy and fast with virtually no need to write a single line of code. This translates to considerably lower development costs and faster time-to-market. As xPico Wi-Fi meets FCC Class B, UL and EN EMC and safety compliance, your development time is shortened. xPico Wi-Fi can reduce the overall cost of ownership compared to the competition.



xPico Wi-Fi
Actual Size



16.5mm



24mm

xPico Wi-Fi Highlights:

- Chip-sized footprint: 24mm x 16.5mm
- Low power (6µA Standby)
- Can be operated off batteries
- IEEE 802.11 b/g/n (2.4 GHz)
- Simultaneous Soft AP and client mode
- Complete device server application with full IP Stack and web server
- Dual serial port with data rate of up to 921 kbps
- SPI with clock rate of 20MHz*
- USB 2.0 full rate device mode*
- 256-bit AES Encryption*
- Industrial temperature range : -40° to +85° C
- 5-Year limited warranty

*Software support for these expected in fourth quarter 2013.

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
- WPS 2.0 support†
- u.FL connector for external antenna

> Serial Interface

- Two Serial CMOS Ports (3.3V, 5V tolerant)
- 300 to 921.6 Kbps
- Flow control XON/XOFF, RTS/CTS (SPort 1 only)
- Lantronix tunneling application (SPort 1 only)

> Host Interface

- Dual Serial Port, SPI*, USB 2.0* (device)
- 8 GPIO*

> Network Protocols

- TCP/IP, UDP/IP, DHCP, ARP, ICMP, DHCP, Auto-IP, DNS, SNMPv1

> Networking Capabilities

- Soft Access Point with DHCP Server
- Lantronix SmartRoam™ 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*

> Architecture

- ARM Cortex M3 class processor with on-chip Flash and SRAM
- 1MB Flash and 128 KB SRAM
- 1MB SPI Flash storage

> Power

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

> Physical Interface

- 40-pin Board-to-Board SMT Connector

> Environmental

- Operating Temperature: -40° to +85° C
- For operation over +70° C a thermal pad is required
- Storage Temperature: -40° to +85° C
- Relative Humidity: 0% to 90% non-condensing

> Certifications

- FCC Class B, UL and EN EMC, Japan

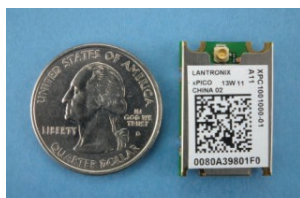
> Packaging

- Dimensions: 24mm (L) x 16.5mm (W) x 5.64mm (H)
- Weight: 2.5g

> Warranty

- 5-Year Limited

xPico Wi-Fi's compact form factor allows for flexible design integration with a chip-sized footprint of only 24mm x 16.5mm.



*Software support for these features expected in fourth quarter 2013.

†Software support for these features expected in first quarter 2014.



Tablet & Smartphone enable devices

xPico WiFi provides simultaneous Soft AP and Client mode, allowing for easy points of access while maintaining a secure network without the need for special clients.

Other members of the xPico product family:

xPico

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

xPico IAP

A chip-sized networking solution that enables Ethernet connectivity on devices for industrial and automation applications that require MODBUS support.

Ordering Information

United States

Call: 800.422.7055

Email: sales@lantronix.com

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

NASDAQ: LTRX

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

XPW100100B-01

XPW100100S-01

XPW100100K-01

TWR-LTRX-XPWK

XPC100A001-01-B

XPC100A002-01-B

> Description

xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Module, Extended Temp, Bulk, RoHS

xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Module, Extended Temp, Sample, RoHS

xPico Wi-Fi— IEEE 802.11 b/g/n Device Server Evaluation Kit w/ xPico Wi-Fi Module, RoHS

xPico Wi-Fi Tower Module for Freescale Tower System w/xPico Wi-Fi Module (Freescale Tower System not included)

xPico Module Mounting Quick Clip Bulk pack (50 pc)

xPico Module Thermal Pad Bulk Pack (50 pc)