



# 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

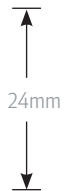
As one of the smallest embedded device servers in the world, xPico Wi-Fi can be utilized in designs typically intended for chip solutions, befitting in advantages to cost and time-to-market. Its “zero host load” eliminates any need for drivers on the connected microcontroller making implementation easy 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 30MHz
- USB 2.0 full rate device mode\*
- 256-bit AES Encryption
- Industrial temperature range : -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)
- IEEE 802.11 d/h/i/j/k/w/t
- 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

### > 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
- 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

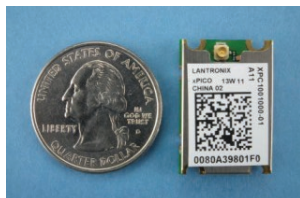
### > Packaging

- 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 available in a future software release. Please contact sales representatives for more information.



## 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 Wi-Fi SMT** The same functionality of the xPico Wi-Fi but in a SMT footprint. Choice of no antenna and with on module ceramic antenna available.

**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

### Americas

**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)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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