



# AN INNOVATIVE, MOBILE READY, WI-FI® SOLUTION FOR M2M AND IOT APPLICATIONS

As an innovative, mobile ready solution, the Lantronix® xPico® Wi-Fi® SMT device server sets new standards for its customers by enabling IoT applications that deliver highly desired smartphone and tablet functionality. Once complex, now Wi-Fi implementation is greatly simplified with xPico Wi-Fi SMT's unique and robust feature set including; simultaneous Soft AP and client mode, zero host load, and configuration by customization. These along with Lantronix' commitment to reliability, quality and ease of use, supports developers to quickly leverage mobile solutions for their applications, while reducing their total cost of ownership across their products life cycle.



\*XPC W1003 version shown

### Tablet & Smartphone Enable Your Devices

Access your data and devices from anywhere – wired or wireless. Lantronix' 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

The Lantronix xPico Wi-Fi SMT device 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 SMT 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 for those devices that do not include or have a limited user interface while maintaining a secure network connection.

### Cost Savings & Faster Time-To-Market

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

## xPico® Wi-Fi® SMT Highlights:

- Low profile footprint: 18.3 x 26.1 x 3.0mm
- Version available with an on module antenna
- 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\*
- 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/r
- u.FL connector and RF pads for optional external antenna (XPCW1002100B)

### > Serial Interface

- Two Serial CMOS Ports (3.3V, 5V tolerant)
- 300 to 921.6 Kbps
- Flow control XON/XOFF, RTS/CTS
- 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

### > 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
- 8MB SPI Flash storage

### > Power

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

### > Physical Interface

- 56-Pad SMT Castellation

### > Environmental

- Operating Temperature: -40° to +85° C
- Storage Temperature: -40° to +85° C
- Relative Humidity: 0% to 90% non-condensing

### > Certifications

- FCC Class B, UL and EN EMC

### > Packaging

- Dimensions:  
XPCW1002100: 26.1mm (L) x 18.3mm (W) x 3.0 mm (H)  
XPCW1003100: 30.1mm (L) x 18.3mm (W) x 3.0 mm (H)
- Weight: 2.5g

### > Warranty

- 5-Year Limited



## Tablet & Smartphone enable devices

xPico WiFi SMT 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

### 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

XPCW1002100B

XPCW1003100B

XPCW1003100S

XPCW1002100K

XPCW1003100K

### > Description

xPico Wi-Fi W1002— IEEE 802.11 b/g/n Device Server Module, Extended Temp, SMT, Bulk, RoHS

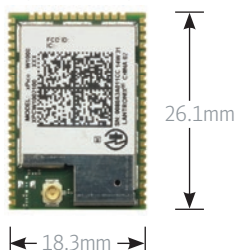
xPico Wi-Fi W1003— IEEE 802.11 b/g/n Device Server Module, Extended Temp, w/ on-module Antenna SMT, Bulk, RoHS

xPico Wi-Fi W1003— IEEE 802.11 b/g/n Device Server Module, Extended Temp, SMT, Sample, RoHS

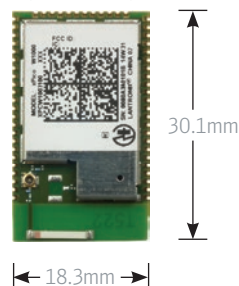
EVALUATION KIT with xPico Wi-Fi W1002 Wi-Fi Module, SMT on Carrier Board, IEEE 802.11 b/g/n, with U.FL and Antenna sample

EVALUATION KIT with xPico Wi-Fi W1003 Wi-Fi Module, SMT 802.11 b/g/n, on-module Antenna

xPico Wi-Fi SMT  
XPCW1002100  
(Actual Size)



xPico Wi-Fi SMT  
XPCW1003100  
(Actual Size)



\*Available in upcoming release (date to be announced)



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;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- 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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