THE MOST FLEXIBLE NETWORK CONNECTIVITY SOLUTION

Designed for quick integration with minimal engineering effort, the chip-sized xPico® provides simplicity and flexibility making it the easiest and fastest networking-enabling module on the market.

The Lantronix® xPico® embedded device server is an extremely compact networking solution that enables Ethernet connectivity on virtually any device with a serial interface. The included industry-proven Lantronix device server application and full IP stack allow seamless remote access to device data simplifying design integration while providing robust connectivity.
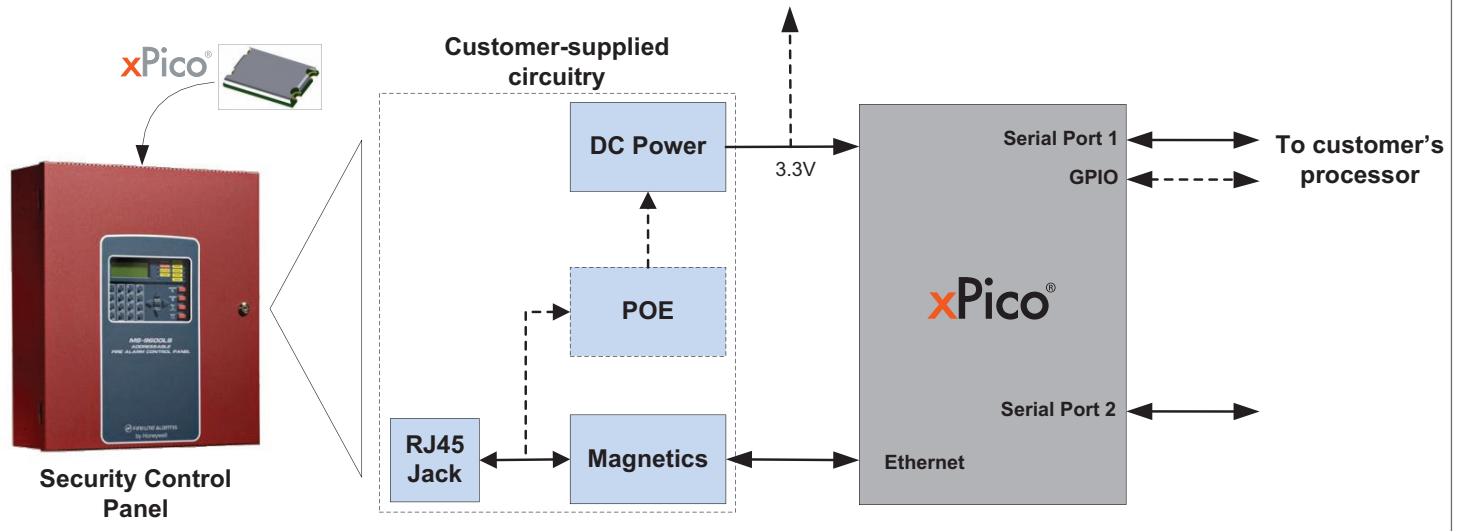
As the smallest embedded device server in the world, xPico can be utilized in designs typically intended for chip solutions. A key difference with the xPico is that there is virtually no need to write a single line of code, translating to a much lower development cost and faster time-to-market.

xPico Highlights:

- Chip-sized Footprint: 24mm x 16.5mm
- Complete Device Server Application with Full IP Stack and Web Server
- Two Serial Ports Supporting Data Rates of up to 921 Kbps
- 256-bit AES Encryption
- Extended Temperature: -40° to +85° C
- 5-Year Limited Warranty

LANTRONIX®

CONNECT SMART. DO MORE.™

xPico in Alarm Control Panel Application

Customer-supplied circuitry

DC Power — 3.3V →

POE

RJ45 Jack — Magnetics

xPico®
- Serial Port 1 ← → To customer's processor
- GPIO ← - - →
- Serial Port 2 ← →
- Ethernet

Security Control Panel

Features and Specifications

> **Serial Interface**
- Two Serial Ports
- Interface: CMOS (Asynchronous) 3.3V-level signals (5V tolerant)
- Data Rates: 300bps to 921,600bps (software selectable)
- Data Bits: 7 or 8
- Stop Bits: 1 or 2
- Parity: Odd, Even, None (serial port one only)
- Control Signals: DTR/DCD, RTS/CTS
- Flow Control: XON/XOFF (software), CTS/RTS (hardware), None (serial port one only)
- Programmable I/O: 8 PIO pins (software selectable)

> **Network Interface**
- Interface: Ethernet 10Base-T or 100Base-TX (Auto-sensing)
- Protocols: TCP/IP, UDP/IP, ARP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, AutoIP, and HTTP

> **Management**
- SNMP, Telnet, Serial, Internal Web Server, and Microsoft Windows-based utility for web configuration

> **Security**
- 256-bit AES Encryption

> **Internal Web Server**
- Storage Capacity: 384KB for Web Pages

> **Architecture**
- CPU: Based on the DSTni-EX Enhanced 16-bit x86 Architecture
- Memory: 256KB SRAM, 512KB Flash
- Firmware: Upgradeable via TFTP and Serial Port

> **Power**
- Input Voltage: 3.3VDC

> **Physical Interface**
- 40-pin Board-to-Board SMT Connector

> **Environmental**
- Operating Temperature: -40° to +85° C
- Storage Temperature: -40° to +85° C

> **Included Software**
- MS Windows-based DeviceInstaller
- MS Windows-based Com Port Redirector

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

> **Warranty**
- 5-Year Limited

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

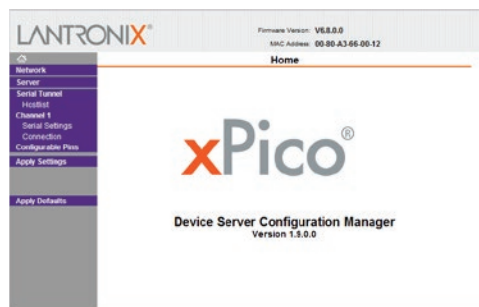| > Part Number	> Description
XPC100100B-01	xPico Device Server Module, Extended Temperature, AES Encryption, Bulk, RoHS
XPC100100S-01	xPico Device Server Module, Extended Temperature, AES Encryption, Sample, RoHS
XPC100A001-01-B	xPico Device Server Module, Mounting Quick Clip (50 pc)
XPC100100K-02	xPico - Device Server Module, Development Kit, w/Module, RoHS

The built-in Web Manager makes configuring xPico quick and easy!

xPico – Smaller than a standard SD card.
Actual size: 24mm X 16.5mm (Bottom view of xPico)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Lantronix](#):
  [XPC100100B-01](#)   [XPC100100S-01](#)