



THE MOST FLEXIBLE NETWORK CONNECTIVITY SOLUTION FOR INDUSTRIAL AND AUTOMATION APPLICATIONS

Designed for robust operation and with support of Modbus, the chip-sized xPico™ IAP module provides simplicity and flexibility making it the easiest and fastest industrial network-enabling module on the market.

xPico IAP 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 with full IP stack and Modbus Protocol support allows seamless remote access to device data, simplifying design integration while providing robust connectivity.

As the smallest embedded device server in the world, xPico IAP can be utilized in designs typically intended for chip solutions. A key difference with the xPico IAP 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 IAP Highlights:

- Chip-sized Footprint: 24mm x 16.5mm
- Complete Device Server Application with Full IP Stack
- Modbus TCP, ASCII, RTU Support
- Serial Port Supporting Up to 115.2kbps
- Extended Temperature: -40° to +85° C

Features and Specifications

> Serial Interface

- Two Serial CMOS Ports* (3.3V, 5V tolerant)
- 300 to 115.2 kbps for Modbus enabled serial port
- Control signals: DTR/DCD, RTS/CTS (Port 1 only)
- Flow control XON/XOFF
- Programmable I/O: 8 PIO pins (software selectable)
- Lantronix Modbus Application
- Modbus TCP, Modbus ASCII, Modbus RTU. Master and Slave mode support

* Modbus can only be operated on one serial port at a time.

> Network Interface

- Interface: Ethernet 10Base-T or 100Base-TX (Auto-sensing)

> Network Protocols

- TCP/IP, UDP/IP, DHCP, ARP, ICMP, DHCP, Auto-IP, DNS, SNMPv1, TFTP, Modbus TCP, ASCII, RTU

> Management and Control

- SNMP, Telnet, Serial
- Field upgradable firmware

> Architecture

- Based on the DSTni-EX Enhanced 16-bit x86 Architecture
- Memory: 256KB SRAM, 512KB Flash

> Available Software

- MS Windows based DeviceInstaller™
- MS Windows based Com Port Redirector

> 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
- Relative Humidity: 0% to 90% non-condensing

> Packaging

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

> Warranty

- 5-Year Limited



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

Europe

Call: +31 (0) 76.52.3.674 4

Email: EMEA@lantronix.com

Japan

Call: +81.3.6277.8802

Email: japan_sales@lantronix.com

> Part Number

XPC10010MB-01

XPC10010MS-01

XPC100A001

> Description

xPico Device Server Module, Extended Temperature, Modbus, RoHS, Bulk

xPico Device Server Module, Extended Temperature, Modbus, RoHS, Sample

xPico Module Mounting Quick Clip Bulk pack (50 pc)

Mouser Electronics

Authorized Distributor

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

Lantronix:

[XPC10010MB-01](#) [XPC10010MS-01](#)