LANTRONIX®



XPort[™] Embedded Device Server

- Minimal engineering efforts required just add your applications
- Remote command and control of edge devices
- Real-time edge device status via mail alerts
- Encryption for secure communications 128-bit AES **US Government approved Rijndael**
- FCC Class B certified EMC compliant
- Everything you need all in a single RJ-45 package

XPort[™] Embedded Device Server: Complexity Made Amazingly Simple

The XPort is the most compact, integrated solution available to Web-enable any edge device with a serial interface. By simply adding XPort to a product design, device manufacturers can now offer Ethernet connectivity as a standard feature in as little as 60 days—instantly increasing product value, enhancing end-user experience and facilitating new service delivery options.

> As the demand for device connectivity increases exponentially, Lantronix removes the complexity manufacturers face by incorporating all the required hardware and software inside a single embedded device solution. Although it is smaller than your thumb, the XPort incorporates all essential networking features, including a 10Base-T/100Base-TX Ethernet connection, a proven operating system, an embedded Web server, e-mail alerts, a full TCP/IP protocol stack and 128-bit AES encryption for secure communications. In effect the disruptive technology introduced by XPort adds profit immediately to your bottom line by significantly reducing product development time, risk and cost.

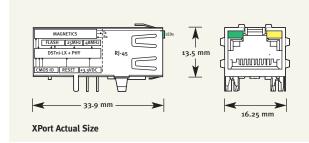
Powered by Lantronix's own DSTni™ (Device Server Technology Network Interface) networking chip that includes a 10/100 PHY, the efficient XPort architecture requires the use of only 256 Kbytes of SRAM and 512 Kbytes of Flash. This Flash memory provides nonvolatile storage of Web pages, and allows system software upgrades via the Internet. XPort also offers a built-in Web server using Java applets for interactive

data communications to and from a device through a standard Internet browser. Web capability can be used for configuration, remote monitoring, or troubleshooting -including real-time device performance notification via e-mail alerts. Additionally, the XPort acts as a dedicated co-processor to optimize network activities, permitting the host microprocessor to function at maximum efficiency.

By integrating the XPort into a design, you can make any electronic product a smart device, with embedded network intelligence that can deliver innovative applications including:

- Remote Diagnostics and Upgrades
- · Asset Tracking and Replenishment
- Automation and Control
- Power Management
- Remote Collaboration
- Personalized Content Delivery

The unique form-factor of the XPort allows OEMs to cost-effectively embed networking in a wide array of products. The complex task of Web-enabling your edge devices has never been so simple.









Features and Specifications

Serial Interface

Interface: CMOS (Asynchronous) Data Rates: 300 to 230 kbps Characters: 7 or 8 data bits Parity: odd, even, none Stop Bits: 1 or 2

Control Signals: RTS, CTS, DTR, DCD Flow Control: XON/XOFF, RTS/CTS

Programmable I/O: 3 PIO pins (Software selectable)

Network Interface

Interface: Ethernet 10Base-T or 100Base-TX (Auto-Sensing) Connector: RJ-45

Protocols: TCP/IP, UDP/IP, ARP, ICMP, SNMP, TFTP, Telnet, DHCP, BOOTP, HTTP, and AutolP

Indicators (LED)

10Base-T connection 100Base-TX connection Link & activity indicator - Full/half duplex

Management

SNMP, Telnet, serial, internal web server, and Microsoft Windows® based utility for configuration

Security

Password protection

Optional 128-bit AES US Govt. approved Rijndael encryption

Internal Web Server

Serves web pages and Java applets Storage capacity: 384 Kbytes

Architecture

CPU: Based on the DSTni-LX enhanced 16-bit, 48MHz, x86 architecture

Memory: 256 Kbytes SRAM and 512 Kbytes flash Firmware: upgradeable via TFTP and serially

Input voltage: 3.3 VDC Input current: 210 mA max

Environmental

Operating: -40° to 85°C (-40° to 185°F) Storage: -40° to 85°C (-40° to 185°F)

Packaging

Dimensions: 33.9x16.25x13.5mm (1.33x.64x.53 inches) Weight: 9 grams (0.32 oz)

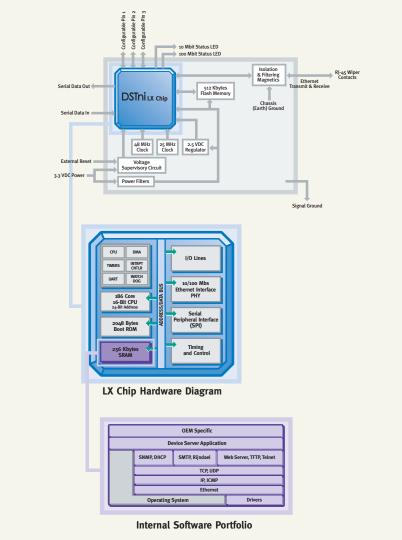
Warranty

1-year limited warranty

Included Software

MS Windows® based software device installer and MS Windows based Comm Port Redirector

XPort Block Diagram



XPort Development Kit

The XPort Development Kit includes everything you need to begin to integrate the XPort into your next product design, including:

- An XPort Evaluation Board and reference design including CAD PCB files and complete BOM
- Universal AC power adapter
- Network (CAT₅) and serial cables
- Data sheet
- Lantronix utilities CD containing new Comm Port Redirector, XPort installer
- Sample code and application notes
- Complete User Manual

For details contact your local Lantronix representative or Lantronix directly:

Asia Pacific Region via e-mail at AsiaPacific@lantronix.com

Europe via e-mail at eu_sales@lantronix.com

Japan via e-mail at japan_sales@lantronix.com

United States via e-mail at sales@lantronix.com or call OEM sales support at 800-526-8764.

