



## THE ONLY INTELLIGENT EMBEDDED ETHERNET GATEWAY



XPort<sup>®</sup> EDGE is the only network communications engine for secure IoT connectivity and remote management that fits within a standard Ethernet connector. Requiring minimal engineering effort, the XPort EDGE allows device manufacturers to add fully integrated, secure Ethernet connectivity and control to their products in a few weeks.

### Advanced Security Features



Leverage a comprehensive suite of built-in device security software with minimal integration effort. Lantronix TruPort<sup>®</sup> Security offers instant access to key features such as secure boot, secure firmware updates, secure connections, data-at-rest protection for keys and configuration and role-based access control.

### Robust Data Connectivity



Reliably and securely communicate your device data with one or more applications on the local network or across the Internet. Utilize customer proven TruPort<sup>®</sup> Serial for transparent pass-through of hundreds of serial protocols or TruPort<sup>®</sup> Socket for multiple connections via TCP, UDP and HTTP(S) Server.

### Remote Management & Cloud Connectivity



Add scalable remote device management and data access to your applications via Lantronix MACH10<sup>®</sup> cloud software platform.

### Fastest Device Integration



Everything you need is included in the tiny RJ45 Ethernet connector package. Connect to any 8/16/32-bit microcontroller with a UART interface. Simplify your device application with fully offloaded network stack, robust security, connectivity and management software.

### Key Benefits:



Faster Time To Market



Lower TCO



Quickest Integration



Network & IoT Offload

### Highlights:

- Customer-proven Serial-to-Ethernet technology (TruPort<sup>®</sup> Serial and TruPort<sup>®</sup> Socket) for secure data communication
- Secure Boot, Secure Firmware Updates
- Built-in TruPort<sup>®</sup> Security for Data-at-Rest and Data-in-Motion Security
- Pre-Integration with MACH10<sup>®</sup> Software Platform for Remote Management and Application Integration
- SSL/TLS 1.2 with PKI and X.509 Certificate Management
- Secure Network Attach (EAPOL)
- Integrated RJ45 Ethernet Jack Magnetics, 10/100 Mbps PHY
- Industrial Operating Temperature Range (-40°C to + 85°C)

## Features and Specifications

### Data Communication

- TruPort® Serial Technology – TCP and UDP Server Mode, TCP and UDP Client Mode, Multi-host Connect; TLS Client and Server
- TruPort® Socket – Multi-host Client and Server Modes, HTTP(S) Server
- Authenticated SMTP Support – Send email directly from device
- Modbus TCP to Modbus RTU/ASCII gateway

### Security and Authentication

- TruPort® Security Software
  - Secure Boot, Secure Firmware-Over-the-Air (FOTA) Updates
  - Secure Key Storage, Encrypted Configuration
  - Secure Connections with SSL/TLS, HTTPS
  - Software Controlled Network Service Ports Enable/Disable
  - Role Based Access Control
  - IEEE 802.1X Network Access Control (EAPOL)
- SSLv3/TLS 1.2 with PKI and X.509 Certificates (up to 2048-bit Keys)
- TLS 1.2, AES (256-bit, 192-bit, 128-bit), up to 4096-bit RSA keys, SHA-2

### Management Interfaces

- Lantronix MACH10® IoT Software Platform
- Serial Port, Telnet, Internal Web Server (HTTP/HTTPS), SNMP
- Lantronix Device Discovery Protocol (L2CAP)
- Secure Firmware Upgrade via HTTP, MACH10®

### Protocol Support

- DHCP Client v4/v6, BOOTP
- Telnet Server, HTTP server
- IPv4/IPv6\*, TCP/IP, UDP/IP, ARP, ICMP, Auto-IP, DNS
- SNMP v1/v2
- IPv6

### Ethernet Specifications

- IEEE 802.3 MAC and PHY, 10BaseT and 100BaseT with Auto-MDIX
- Auto Negotiation; Full duplex and half duplex support
- Link Activity LED Indicators

### Serial Interface Specifications

- 1x UART (Serial) Ports
- CMOS (Asynchronous) 3.3V Level Signals
- Data Rates: 4Mbps (software selectable)
- Data Bits: 7 or 8; Stop Bits: 1 or 2; Parity: Odd, Even or None
- Control signals: DTR/DCD, RTS/CTS
- Flow Control: XON/XOFF (software), RTS/CTS (hardware), None

### Configurable I/Os

- Programmable I/O: up to 3 CPs
- I/O Voltage: 3.3V

### Architecture

- CPU: Cortex R4 up to 320 MHz
- Storage: 8MB SPI Flash; 1MB for FileSystem

### Power

- Input Voltage: 3.3VDC
- Current consumption: 160 mA (100-BaseT); 180 mA (10-BaseT)

### Environmental

- Operating Temp: -40°C to +85°C
- Storage Temp: -40°C to +85°C
- Storage Humidity: 5% to 95% relative humidity, non-condensing

### Dimensions

- Dimensions: 33.9 x 16.25 x 13.5 mm (1.33 x 0.64 x 0.53 in)
- Weight: 9.6g (0.34 oz)

### Packaging

- Tray: 50 units/tray (200 units Carton)
- Sample: 1 unit (Box)

### Developer Tools

- SDK available for download from Lantronix
- For more information, refer to:
  - [docs.lantronix.com/products/xport-edge/sdk](https://docs.lantronix.com/products/xport-edge/sdk)

### Certifications

- FCC, EU, Canada Class B emission/immunity and UL/CB 60950/62368 safety.
- IPv6
- For other certifications, please refer to the [XPort EDGE Data Sheet](#).



Gateway Central™



MACH10® Global Device Manager

### XPort EDGE® Evaluation Kit



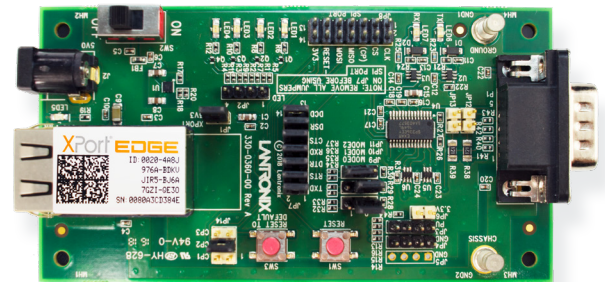
RJ45 to RJ45 Cable



5V Power Supply



DB9F to DB9F Null Modem Cable



### Product Variants

Part Number	Description
XPE200100B	XPort EDGE Secure Embedded Ethernet Gateway, Bulk
XPE200100S	XPort EDGE Secure Embedded Ethernet Gateway, Sample
XPE200100EK	XPort EDGE Evaluation Kit

### Ordering Information

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