XPort® 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® 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® Serial for transparent pass-through of hundreds of serial protocols or TruPort® 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® 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® Serial and TruPort® Socket) for secure data communication
- Secure Boot, Secure Firmware Updates
- Built-in TruPort® Security for Data-at-Rest and Data-in-Motion Security
- Pre-Integration with MACH10® 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

**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, HTTP(S)
  - 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

**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: 300 bps to 921 kbps (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-BaT), 180 mA (10-BaT)

**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)

*IPv6 Support Planned for Q1 CY 2019