



# xPico® 200 Series

Embedded Wireless IoT Gateway



THE INDUSTRY'S  
SMALLEST EMBEDDED  
IOT GATEWAY

**IoT. Accelerated.** Delivering seamless and secure Ethernet, Wi-Fi and/or Bluetooth connectivity, the Lantronix xPico® 200 series allows OEMs to go to market faster with their smart IoT solutions. Featuring advanced enterprise security, networking intelligence, and pre-integration with the MACH10™ management software platform, the xPico® 200 series delivers the power of an IoT gateway in an industry-leading compact footprint.



### Robust Connectivity For Reliable Data Access & Management

The xPico® 200 series makes it easy to deploy robust Ethernet, Wi-Fi and Bluetooth connectivity that provides reliable and secure data access and management for your smart IoT solution – whether it is through multiple applications on the local network or across the Internet. Field-tested TruPort® Serial delivers transparent pass-through of hundreds of serial protocols and TruPort Socket allows for multiple connections via TCP, UDP or TLS.



### Easy-to-Deploy Networking Intelligence For Your Machine

Simplify device firmware complexity with a completely offloaded secure networking communications engine. Securely connect to enterprise Ethernet or Wi-Fi networks. Get to market quickly by utilizing production ready network stack, robust security, connectivity and management software.



### Comprehensive Device Security Framework

Leverage a comprehensive suite of built-in device security software with minimal integration effort. Lantronix TruPort® Security software offers instant access to key features such as robust secure connections, data-at-rest protection for keys, configuration and firmware, and centrally managed identity and access control.



### Scalable IoT Management Software To Enhance The User Experience

Add scalable remote device management and data access to your applications via Lantronix MACH10™ cloud software platform. Utilize IoT optimized protocols such as MQTT and WebSockets for communications with other cloud based applications.

### xPico® 200 Highlights

- Robust dual-band 802.11 a/b/g/n Wi-Fi
- Bluetooth Smart Ready 4.2 (xPico 250)
- Lantronix Soft AP+Client allows for device support and access without disrupting machine field operation
- TruPort® Security ensures enterprise level security of both data-at-rest and data-in-motion
- TruPort® Serial and TruPort® Socket technology supports a wide range of communication protocols
- Industrial grade design for operation in extreme environments (-40 C to +85 C)

### Ideal For



Industrial



Medical Devices



Retail



Resource Management



## Features and Specifications

### Network

#### Wireless Specifications

- IEEE 802.11 a/b/g up to 54 Mbps ; 802.11 n (1x1) up to 150 Mbps
- 20, and 40 MHz channel width with optional SGI
- Dual Band 2.4 GHz and 5 GHz, Channels 1-14, UNII-1, 2, 2e and 3
- Supports IEEE 802.11 d/h/j/i/r/w/k
- Bluetooth/WLAN Coexistence

#### Ethernet Specifications

- IEEE 802.3 MAC, 10BaseT and 100BaseT (RMII)

### Data Communication

- TruPort<sup>®</sup> Serial Technology— TCP and UDP Server Mode, TCP and UDP Client Mode, Multi-host Connect; TLS Client and Server
- TruPort<sup>®</sup> Socket— Multi-host Client and Server Modes, HTTP(S), Sockets, TLS
- Authenticated SMTP Support— Send email directly from device

### Security and Authentication

- TruPort<sup>®</sup> Security Software
  - Secure Boot, Secure Firmware Upgrades
  - Secure Key Storage, Encrypted Configuration
  - Secure Connections with SSL/TLS, HTTPS
  - Software Controlled Network Service Ports Enable/Disable
  - Role Based Access Control
- AES/CCMP and TKIP encryption, WPA/WPA2 Personal
- WPA2 Enterprise (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST)
- SSLv3/TLS 1.2 with PKI and X.509 Certificates (up to 2048-bit Keys)
- NIST Certified AES (FIPS-197) Algorithm, 256-bit, 192-bit, 128-bit

### Management Interfaces

- Lantronix MACH10™ Cloud Software Platform—MQTT
- Serial Port, Internal Web Server (HTTP/HTTPS), SNMP
- XML Configuration and XML Status (CLI, API)
- Secure Firmware Upgrade via HTTP, MACH10

### Protocol Support

- DHCP Client, Server (Soft AP), HTTP Server/Client
- IPv4/IPv6<sup>1</sup>, TCP/IP, UDP/IP, ARP, ICMP, Auto-IP, DNS

### Wireless Features

- Concurrent Soft AP + STA (Client), Client, Soft AP, Wi-Fi Direct
- Up to 5 simultaneous client connections to Soft AP interface
- Connect to multiple WLAN networks, WLAN QuickConnect
- Ethernet to Wi-Fi Client Bridge (Single Host Mode), Auto-MAC ID

### Power

- Input Voltage: 3.3VDC
- Max Current Consumption: TBD; Standby Mode: TBD

### Environmental

- Operating Temp: -40°C to +85°C; Storage Temp: -40°C to +85°C
- Storage Humidity: 10% to 90% relative humidity, non-condensing

<sup>1</sup> IPv6 availability in 1H CY2018

### Host Interfaces

- Serial: UART Port TTL
  - Data Rates: 300 bps to 921 kbps (software selectable)
  - Control signals: DTR/DCD; Flow Control: RTS/CTS; XON/XOFF
- USB (Host), I2C, SDIO, 17 Programmable I/O Pins
- System Pins: RESET, DEFAULT, WAKE

### Dimensions & Packaging

- Dimensions: 17mm x 25mm x 2mm; Weight: TBD
- Tape and Reel: 250 units/reel

### Certifications

- FCC Part 15 Class B, 15.247, 15.407; ICES-003 Issue 4 , RSS-210
- EU RED Directive (2017);
- C-Tick (AS/NZS CISPR2:2006); AS/NZS 4771:2000 + A1:2003
- SRRC
- Japan Radio Cert Article 2-1 (19), (19-2), (19-3), (19-3-2)
- EN 60950:2001; IEC 60950
- Wi-Fi Alliance Certified (802.11a/b/g/n)

### Warranty

- 5-Year Limited

## Ordering Information

Part Number	Description
XPC240100B	xPico 240 Emb GW, Wi-Fi, Eth, Dual u.fl, LGA, BULK
XPC240200B	xPico 240 Emb GW, Wi-Fi, Eth, Module Ant, LGA, BULK
XPC240300B	xPico 240 Emb GW, Wi-Fi, Eth, Dual u.fl, Edge, BULK
XPC240300K	xPico 240 Evaluation Kit with Edge Connector Module
XPC250100B	xPico 250 Emb GW, Wi-Fi, Eth, BT, Dual u. fl, LGA, BULK
XPC250300B	xPico Emb GW, Wi-Fi, Eth, BT, Dual u. fl, Edge, BULK
XPC250300K	xPico 250 Evaluation Kit with Edge Connector Module

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