







xPico Wi-Fi Embedded Device Server Evaluation Kit User Guide

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Revision History

Date	Rev.	Comments	
July 2013	Α	Initial document.	
August 2013	В	Added xPico Wi-Fi module information.	
August 2013	С	Updated pin number information.	
December 2014	D	Updated Lantronix evaluation board information; added the new	
		evaluation board schematic for SMT part with on-module antenna.	

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1: Introduction

About this Guide

This guide provides the information needed to use the Lantronix® xPico® embedded device server with the evaluation kit. The intended audience is the engineers responsible for integrating the xPico and xPico Wi-Fi into their product. In this document, "xPico" refers to all xPico Ethernet only modules, "xPico Wi-Fi" refers to all xPico modules which have a Wi-Fi interface and "xPico Wi-Fi SMT" refer to those modules with a surface mount mounting.

Notes: Everything required to evaluate the xPico turnkey application is provided in the Evaluation Kit. See xPico Wi-Fi Evaluation Kit Contents for more information.

Additional Documentation

Visit the Lantronix web site at www.lantronix.com/support/documentation for the latest documentation and the following additional documentation.

Document	Description
xPico Wi-Fi Embedded Device Server Evaluation Kit Quick Start Guide	Instructions for getting the xPico module up and running on the evaluation board.
xPico Embedded Device Server Integration Guide	Provides information for integrating the xPico module on a customer platform.
xPico Wi-Fi SMT Embedded Device Server Integration Guide	Provides information for integrating the xPico Wi-Fi SMT module on a customer platform.
xPico Embedded Device Server Product Brief	Provides a quick reference to xPico technical specifications.
xPico Wi-Fi Embedded DeviceProvides a quick reference to xPico Wi-Fi technical specialServer Product Brief	
xPico Wi-Fi SMT Embedded Device Server Product Brief	Provides a quick reference to xPico Wi-Fi SMT technical specifications.
xPico Wi-Fi SMT Embedded Device Server Datasheet	Provides a detailed reference to xPico Wi-Fi SMT technical specifications.
xPico Embedded Device Server User Guide	Provides information needed to configure, use, and build applications on the xPico.
xPico Wi-Fi Embedded Device Server User Guide	Provides information needed to configure, use, and build applications on the xPico Wi-Fi.

2: Evaluation Kit

The xPico Embedded Device Server family of products can be evaluated using several available Evaluation Kits depending upon the type of PCB mounting and interface.

The xPico Embedded Device Server Evaluation Kit (part number XPW100100K-01) is for evaluating the xPico and xPico Wi-Fi modules with 40-pin connector interface. The xPico Wi-Fi SMT module with on module antenna (XPCW1003100) module uses the XPCW1003100K. The xPico Wi-Fi SMT module with U.FL connector comes on a carrier board that uses the same board as the used for the connector versions of the module. This Evaluation Kit is the XPCW1002100K. All of these kits can help you get familiar with your xPico module so that you may understand how to integrate your xPico embedded device server into a given product design.

Table 2-1 xPico Wi-Fi Evaluation Kit Contents

XPW100100K-01	XPCW1002100K	XPCW1003100K
xPico Wi-Fi ModulexPico Evaluation Board	 xPico Wi-Fi SMT W1002 Module on Carrier Board 	xPico Wi-Fi SMT W1003 Module
5V Wall AdaptorxPico Mounting Quick Clip	xPico Evaluation Board5V Wall Adaptor	xPico SMT Evaluation Board5V Wall Adaptor
40-pin Connector Sample	2 dBi Swivel Type Antenna and U.FL to RP SMA Cable	·
 2 dBi Swivel Type Antenna and U.FL to RP SMA Cable 	2.5 dBi PCB Strip Antenna with U.FL cable	
 2.5 dBi PCB Strip Antenna with U.FL cable 	With O.F. E capic	

Evaluation Board Description

The xPico Wi-Fi evaluation board provides a test platform for the Lantronix xPico device server products. The evaluation board uses either 5V power from a USB device port connector or power supplied to the Ethernet connector via PoE (XPW100100K-01 only). The evaluation board also provides a header for connection to a 2.2V to 5.5V external source, such as a battery. The Evaluation Kit includes a 5V wall adapter with a USB plug to allow powering the evaluation board from a standard power strip. The evaluation board includes all necessary regulators to power the 3.3V xPico module. The evaluation board has the following features:

- One DB9 serial port connector with a multi-protocol RS232, RS422, RS485 transceiver at rates up to 1Mbps. Serial port modes are configured by on-board jumpers.
- A second RS232 serial port is available on a header.
- One RJ45 10/100 Ethernet port with an integrated PoE regulator to allow powering from standard POE PSE. (POE works with Ethernet xPico modules only) (XPW100100K-01 only)
- One Mini-Type B USB device port connector for 5V input power. This port also has an
 integrated USB-to-serial converter. The USB-to-serial converter can be connected to the
 xPico second serial port via a board jumper setting.
- A second Mini-type B USB device port is available for connection to the xPico module USB device port. (Currently available on xPico Wi-Fi only)

- ♦ LEDs for the xPico Ethernet, WLAN, and System status outputs along with two additional LEDs that can be driven via jumper wire are provided.
- Access to all logic level IO signals on the xPico via header pins for measurements and connections to other places.

The figure below shows the xPico evaluation board and highlights all of the various connectors and configuration jumpers. The following table lists each of the connectors and jumper headers along with their function. Further description and pin assignments are included in subsequent sections.

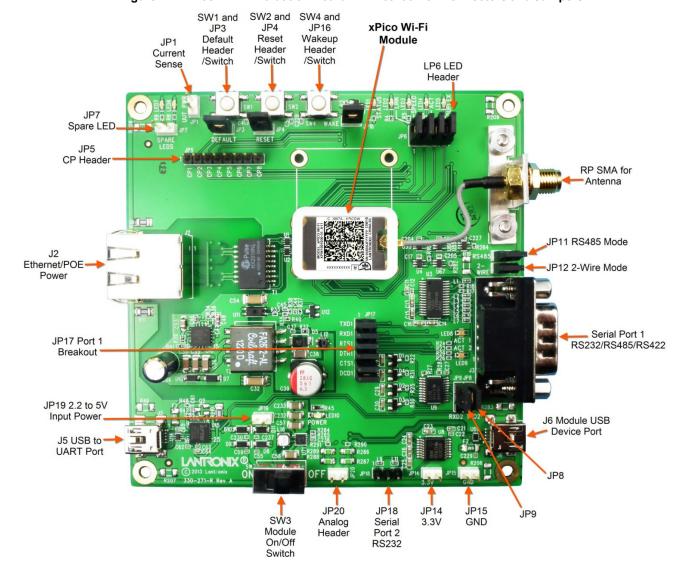


Figure 2-1 xPico Wi-Fi Evaluation Board XPW100100K-01 Connectors and Jumpers

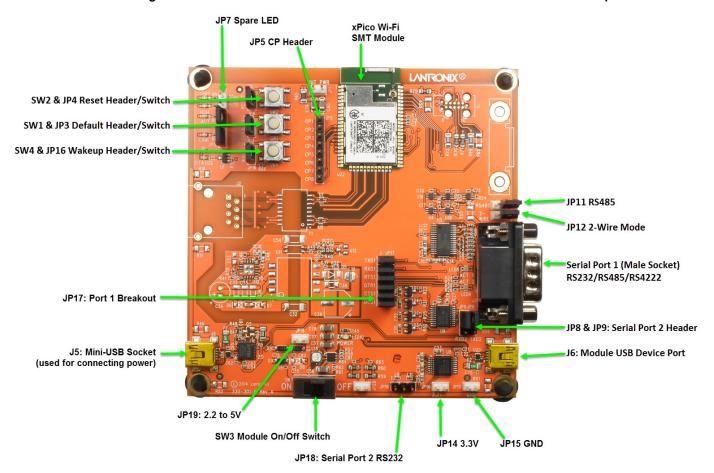


Figure 2-2 xPico Wi-Fi SMT Evaluation Board XPW100300K - Connectors and Jumpers

Table 2-2 Evaluation Board Connectors, Header and Switches

Ref Des.	Connector/Header Function
J1	xPico Module Socket
	40 pin socket for xPico module or SMT carrier board. XPW100100K-01 and XPCW1002100K only.
J2	RJ45 Connector
	10/100Mbps Ethernet connector. PoE powered device port. Functional for xPico Ethernet modules. XPW100100K-01 and XPCW1002100K only.
J3	Serial Port 1 DB9
	Standard RS232/RS422/RS485 DB9 serial port connector.
J5	Mini USB Connector
	Standard USB device port that can be used to power the evaluation board and/or drive the evaluation board USB-to-serial converter. The USB serial port converter can be connected to the module second serial port via a jumper setting.
J6	Mini USB Connector
	Standard USB device port that can be used to power the evaluation board and/or drive the xPico Module USB device port. Functional for xPico Wi-Fi module.

Ref Des.	Connector/Header Function
JP1	Module Power Jumper
	Allows for voltage measurement of the xPico module current sense resistor. The current sense resistor is 0.301 ohms.
JP3	Default Button Jumper
	Allows access to module reset to default signal and SW1 push button. Install to use SW1 as reset to default button.
JP4	HW Reset Button Jumper
	Allows access to module HW reset signal and SW2 push button. Install to use SW2 as HW reset button.
JP5	Configurable Pin Header
	Provides access to xPico module configurable pins CP1 to CP8
JP6	Ethernet/WLAN LED Header
	Allows access to Ethernet/WLAN LED signals. Install to drive evaluation board Ethernet/WLAN LEDs with module LED signals. XPW100100K-01 and XPCW1002100K only.
JP6	Reserved for future Ethernet activity LED (XPCW1003100k)
JP7	Spare LED Header
	Provides two additional LEDs. Jumper to desired active low signal to light LED6 and LED7
JP8	Serial Port 2 TX Source Header
	Install jumper to select between DB9 serial port or USB-to-serial.
JP9	Serial Port 2 RX Source Header
	Install jumper to select between DB9 serial port or USB-to-serial.
JP10	WLAN LED Header (XPCW1003100K)
	Allows access to WLAN LED signal. Install to drive evaluation board WLAN LEDs with module LED signals.
JP11 Serial Port 1 RS232/RS422/RS485 Mode Jumper	
	Leave open for RS232 mode. Install for RS422/RS485
JP12	Serial Port 1 RS422/RS485 Mode Jumper
	Leave open for RS232 or 4-wire mode. Install for 2-wire mode.
JP14	3.3V Power Header
	Provides access to the internal 3.3V power rail.
JP15	Ground Header
	Provides access to the internal signal ground rail.
JP16	WAKE Header
	Allows access to module WAKE signal and SW4 push button. Install to use SW4 to wake up the xPico module when in low power modes.
JP17	Serial Port 1 Breakout Header
	Install jumpers to connect xPico Serial Port 1 flow control signals to the RS232/RS422/RS485 transceiver for Serial Port 1.
JP18	Serial Port 2 Signal Header
	Provides access to the module second serial port. The signals on this header have been buffered by an RS232 transceiver.

Ref Des.	Connector/Header Function		
JP19	External Power Header		
	Provides connection point for an external 2.2V to 5.5V power source, such as a battery. This is connected to a 3.3V step up/down regulator that will power the evaluation board and module circuitry.		
SW1	Module Reset to Default		
	When pushed asserts the xPico module reset to default function.		
SW2	Module Hardware Reset		
	When pushed asserts the xPico module hardware reset to reboot the module.		
SW3	Board Power Switch		
	Switches ON or OFF the logic power rails.		
SW4	WAKE Button		
	When pushed asserts the xPico module WAKE signal. Functional for xPico Wi-Fi module only.		

Serial Port 1 RS232/RS485 and Serial Port 2 RS232 Interface

The evaluation board has one multiprotocol RS-232/RS422/RS485 port and one RS232 port for connection to the xPico internal UARTs. Serial port 1 is a DB9 type connector labeled J3. Serial Port 2 is a 3-pin header, JP18. The null modem cable can be used to connect J3 directly to a standard PC RS232 serial port.

The tables below list the RS232/RS422/RS485 signals and corresponding pins on the evaluation board DB9 connectors. All signals at J3 are level-shifted by a multiprotocol transceiver. JP18 is an RS232 port only.

Table 2-3 RS-232 Signals on J3 Serial Port

xPico Evaluation Board PIN FUNCTION SERIAL PORTS	DB9 Pin#
TX_232 (Data Out)	3
RX_232 (Data In)	2
CTS_232 (HW Flow Control Input)	8
RTS_232 (HW Flow Control Output)	7
DTR_232 (Modem Control Output)	4
DCD_232 (Modern Control Input)	1
GND (Ground)	5

Table 2-4 RS-422 4-Wire Signals on J3 Serial Port

xPico Evaluation Board PIN FUNCTION SERIAL PORTS	DB9 Pin#
TX- (Data Out)	3
RX+ (Data In)	2
TX+ (Data Out)	7
RX- (Data In)	8
GND (Ground)	5

Table 2-5 RS-485 2-Wire Signals on J3 Serial Ports

xPico Evaluation Board PIN FUNCTION SERIAL PORTS	DB9 Pin#
TX-/RX- (Data IO)	3
TX+/RX+ (Data IO)	7
GND (Ground)	5

The J3 DB9 port is configured for RS232, RS422 (4-wire), or RS485 (2-wire) by jumper settings on JP11 and JP12. *Table 2-5* lists the correct jumper installation for each mode.

Table 2-6 JP11 and JP12 Jumper Settings for Serial Port 1 (J3)

xPico Evaluation Board Serial Port 1 Mode (J3)	JP11	JP12
RS232 (Default)	OUT	OUT
RS485 2-wire	IN	IN
RS422 4-wire	IN	OUT

JP18 is for connection to the module second serial port through an RS232 transceiver. The pin assignments for JP18 are listed below.

Table 2-7 JP18 Serial Port 2 RS232 Connections

xPico Evaluation Board Serial Port 2	JP18 pin
TX RS232 output	1
Signal Ground	2
RX RS232 input	3

All of the xPico module serial port signals can be used as configurable pins. Jumper headers JP17, JP8 and JP9 have been included to allow for each of the serial port signals to be connected or disconnected from the serial port transceiver. The tables below list the JP17, JP8, and JP9 serial port signal connections. Install jumper or remove as needed for desired function. In addition, the second serial port on the xPico module can be connected to either the serial port on J18 or to the USB on J5 via the on board USB-to-serial converter. Jumpers JP8 and JP9 allow for the selection of sending the JP18 or J5 USB-to-Serial converter to Serial Port 1.

In order to access the unit through the J5 USB port, you will need to install the USB-to-serial VCP driver from FTDI on your PC. It is available in the installation directory of DeviceInstaller

and later versions, for installation. It can also be obtained from the FTDI website provided below. Once installed, you will be able to view the xPico boot messages as well as provide command inputs through any PC terminal program, such as Tera Term.

Download FTDI USB-to-serial drivers at this website: http://www.ftdichip.com/Drivers/VCP.htm

Table 2-8 JP17 Serial Port 1 Flow Control Break Out Header

xPico Module J1 Pin	xPico Module PIN FUNCTION	JP17 Pin #	JP17 Pin #	JP3 Evaluation Board Function
10	Serial Port TX (output)		1	RS232, RS485 TX
7	Serial port RX (input)		3	RS232, RS485 RX
5	Serial port RTS1 or TX enable or configurable pin	6	5	RS232 RTS, RS485 TX Enable
28	Configurable pin CP3 or Serial port DTR1 8		7	RS232 DTR
16	Serial port CTS1 or configurable pin	10	9	RS232 CTS
30	Configurable pin CP4 or Serial port DCD1	12	11	RS232 DCD

Note: JP17 jumpers 7 to 8 and 11 to 12 are not installed by default. All other JP17 jumpers are installed at the factory.

Table 2-9 JP8 and JP9 Port 2 Serial or USB/Serial Selection Headers

Serial Port 1 External Connection	JP8	JP9
Serial Port 2 to JP18 for RS232 (Default)	Jumper pins 1 to 2	Jumper pins 1 to 2
Serial Port 2 to J5 USB via USB-to-serial converter	Jumper pins 2 to 3	Jumper pins 2 to 3

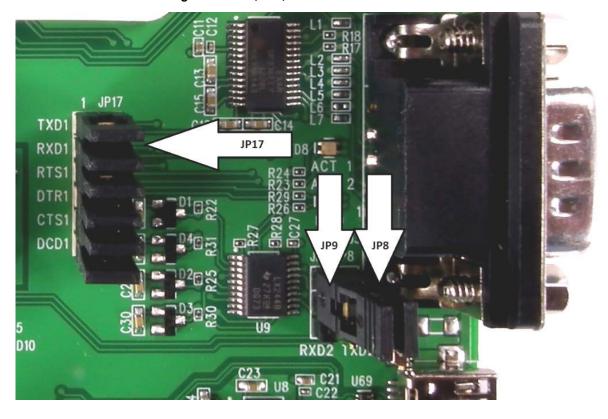


Figure 2-3 JP8, JP9, and JP17 Headers

Antenna Port

The xPico evaluation boards (XPW100100K-01 and XPCW1002100K) includes a bracket for mounting the U.FL to Reverse Polarity SMA RF cable included with the kit. Follow the procedure below when installing the antenna cable. The same procedure applies when using the PCB strip antenna, with the exception that the swivel antenna does not need to be connected to the RF cable.

- 1. Attach the U.FL cable to the antenna prior to installing the xPico Wi-Fi module on the J1 socket.
- 2. Attach the plastic mounting clip to the module.
- 3. Install the module/SMT module on carrier board into the J1 socket.
- 4. Install the external antenna to the SMA end of the RF cable.

Note: Install or remove the antenna connections only while the module is powered off.

Ethernet Port

The xPico evaluation board XPW100100K-01 includes one RJ45 with on-board magnetics for connection to the xPico module 10/100Mbps Ethernet interface. Connector J2 is the Ethernet port.

Note: The Ethernet port is functional for xPico Ethernet modules only.

Power Supply

The evaluation board provides several options for input power. Included with the kit is a 5V wall adapter. The 5V wall adapter plugs into USB connector J5. In addition to powering from the wall adapter, the evaluation board can be powered from a standard PC USB Host port by connecting a USB cable between the PC and J5 or J6. The XPW100100K-01 evaluation board can also be powered via Power-Over-Ethernet (PoE). The integrated PoE regulator accepts power from the Ethernet port on J2. The final option is to connect DC power to header JP19.

Table 2-10 Evaluation Board Power Options

Input Power Option	Description
5V Wall Cube	Connect 5V wall cube to J5 or J6 USB port. Note: USB-to-serial and USB device port not available in this option.
USB	Connect J5 or J6 USB power to a PC USB Host Port.
	Note : For J5 connection, PC Host port can communicate with serial port 2 via on-board USB-to-serial converter. See Table 2-1 for JP8 and JP9 jumper pin selection.
	Note : For J6 connection, PC can communicate with module device port on xPico Wi-Fi module.
PoE	Connect J2 Ethernet port to external PoE PSE switch or PoE injector. XPW100100K-01 only
JP19	Connect a 2.2V to 5.5V DC power source to JP19 pin 1 (+). Connect the power supply DC ground to JP19 pin 2 (-).

LEDs

The xPico evaluation board includes several LEDs for signal and unit status. The table below lists all of the LEDs and their functions.

Table 2-11 LEDs Signals

J1 Pin	LED Ref Design	Color	LED Function	
20	LED1	Orange	xPico Status LED blinks with patterns indicating module status. See the xPico user guide for a full description of the status LED blink patterns.	
4	LED2	Orange	Ethernet Link/WLAN Status LED is ON when the device is associated with an access point (on the STA interface.) LED is OFF when the device is not associated with an access point. LED is ON when there is a valid Ethernet link (XPW100100K-01)	
6	LED3	Orange	Ethernet Speed (XPW100100K-01) LED is ON when Ethernet is in 100Mbps mode, xPico with Ethernet only.	
8	LED4	Orange	Ethernet Activity (XPW100100K-01) LED blinks when there is activity on the Ethernet port, xPico with Ethernet only.	
14	LED5	Orange	Ethernet Duplex (XPW100100K-01) LED is ON when Ethernet is in half duplex mode, xPico with Ethernet only.	
	LED6	Orange	Spare LED LED is ON when JP7 pin 1 is driven low	
	LED7	Orange	Spare LED LED is ON when JP7 pin 2 is driven low.	
10	LED8	Green	Serial Port 1 TX Activity LED is ON for activity on the Serial Port 1 transmit line	
7	LED8	Orange	Serial Port 1 RX Activity LED is ON for activity on the Serial Port 1 receive line	
25	LED9	Green	Serial Port 2 TX Activity LED is ON for activity on the Serial Port 2 transmit line	
23	LED9	Orange	Serial Port 2 RX Activity LED is ON for activity on the Serial Port 2 receive line	
	LED10	Blue	3.3V Power LED LED is ON when the evaluation board power supply is generating 3.3V	

Table 2-12 JP6 LED Header Connections (XPW100100K-01 and XPCW1002100K)

Jumper Position	Description		
Pins 1 to 2	Install to connect module Ethernet link/WLAN status signal to LED2		
Pins 3 to 4	Install to connect module Ethernet Speed signal to LED3		
Pins 5 to 6	Install to connect module Ethernet Activity signal to LED4		
Pins 7 to 8	Install to connect module Ethernet Duplex signal to LED5. Remove when using xPico Wi-Fi module to prevent conflict with module wake up signal.		
	This jumper is not stuffed by default.		

Table 2-13 JP6 LED Header Connections (XPW100300K)

Jumper Position	Description		
Pins 1 to 2	nstall to connect module WLAN status signal to LED2		

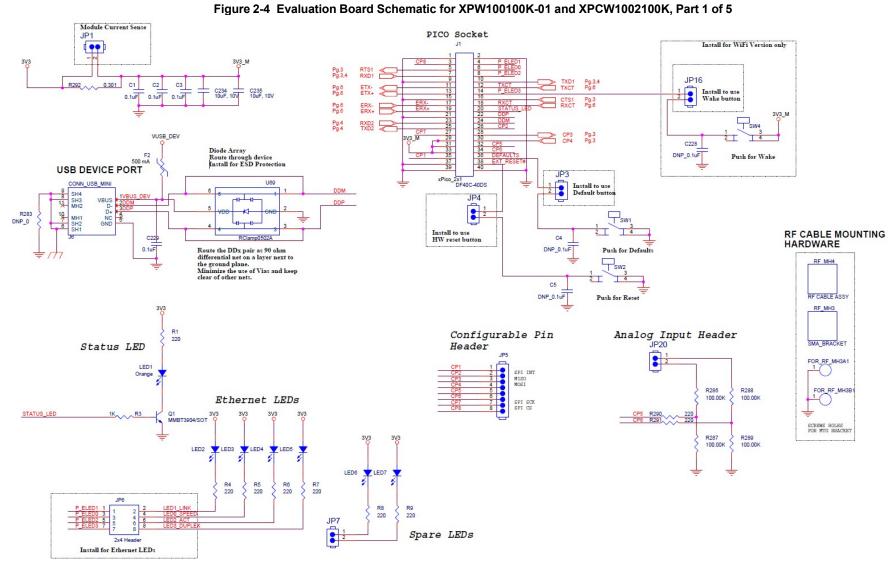
Additional Headers

The table below lists the pin functionality of the additional evaluation board headers.

Table 2-14 Additional Headers

J1 Pin	Header Pin	Signal	Function
36	JP3 pin 1	Module reset to defaults (active low)	Install jumper (JP3 pins 1 to 2) to use SW1 for asserting default function.
38	JP4 pin 1	Module hardware reset (active low)	Install jumper (JP4 pins 1 to 2) to use SW2 for asserting hardware reset.
14	JP16 pin 1	Module wake up (rising edge triggered)	Install jumper (JP16 pins 1 to 2) to use SW4 for asserting module wake up.
			Do not install when using xPico (wired) Ethernet Duplex LED signal.
35	JP5 pin 1	CP1, configurable pin	Test point
26	JP5 pin 2	CP2, configurable pin	Test point
28	JP5 pin 3	CP3, configurable pin	Test point
30	JP5 pin 4	CP4, configurable pin	Test point
32	JP5 pin 5	CP5, configurable pin	Test point
34	JP5 pin 6	CP6, configurable pin	Test point
27	JP5 pin 7	CP7, configurable pin	Test point
3	JP5 pin 8	CP8, configurable pin	Test point

Evaluation Board Schematic (XPW100100K-01 and XPCW1002100K)



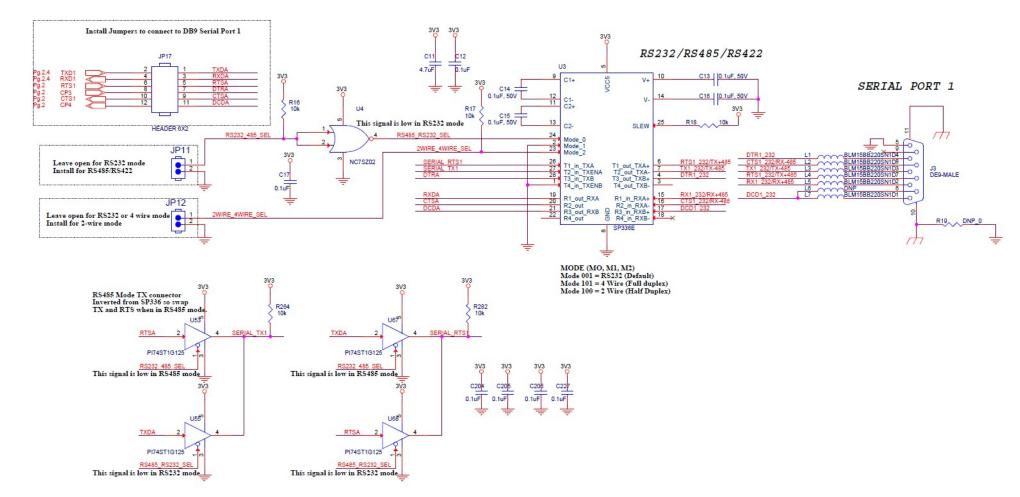


Figure 2-5 Evaluation Board Schematic for XPW100100K-01 and XPCW1002100K, Part 2 of 5

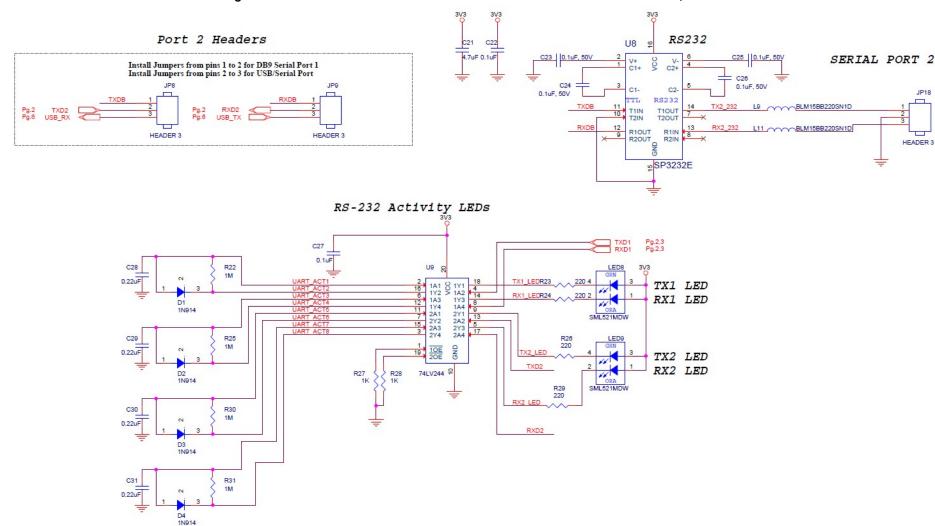


Figure 2-6 Evaluation Board Schematic for XPW100100K-01 and XPCW1002100K, Part 3 of 5

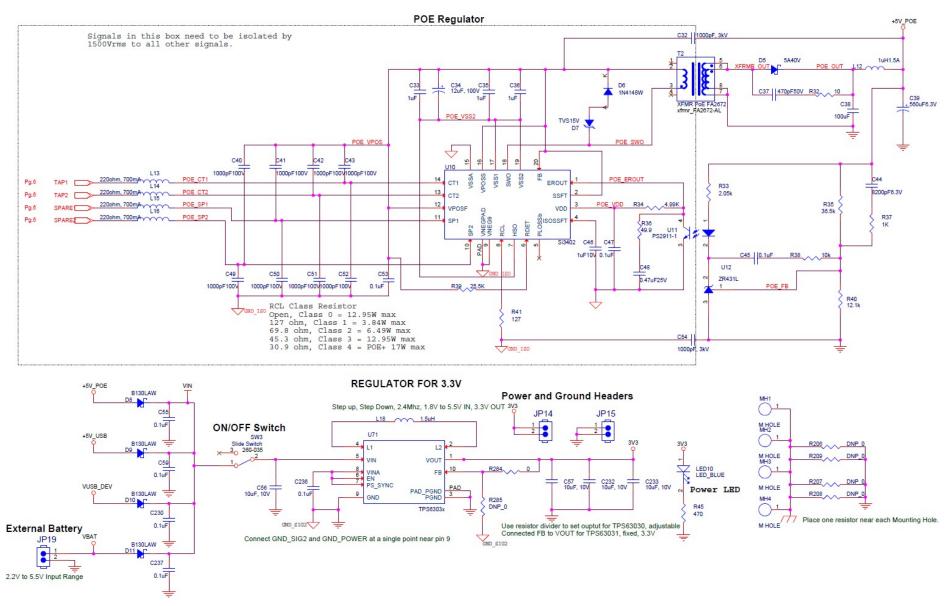
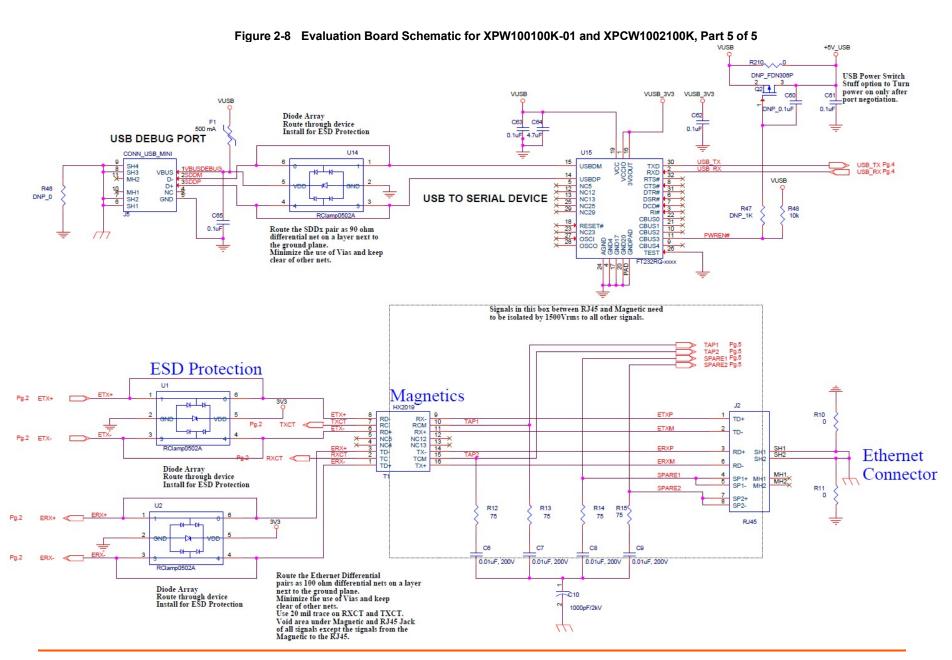


Figure 2-7 Evaluation Board Schematic for XPW100100K-01 and XPCW1002100K, Part 4 of 5



xPico® Wi-Fi® Embedded Device Server Evaluation Kit User Guide

Evaluation Board Schematic (XPCW1003100K)

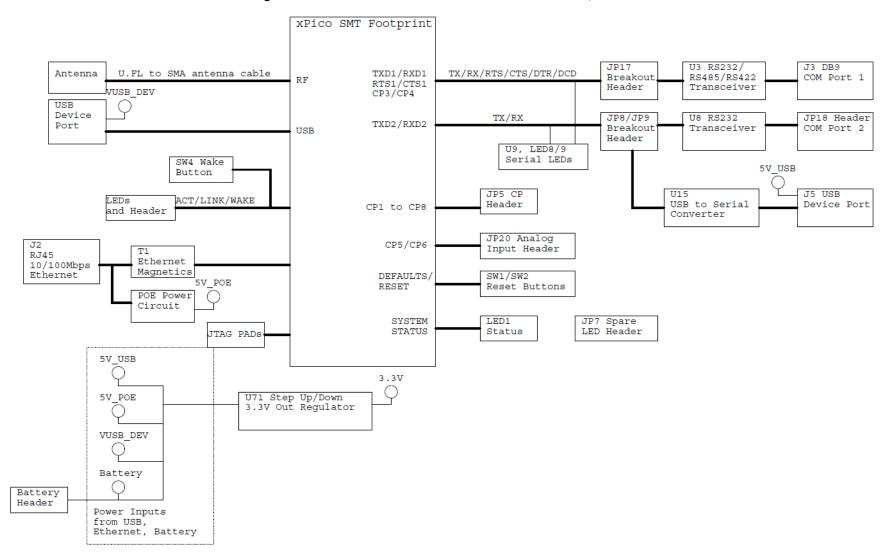


Figure 2-9 Evaluation Board Schematic for XPCW1003100K, Part 1 of 7

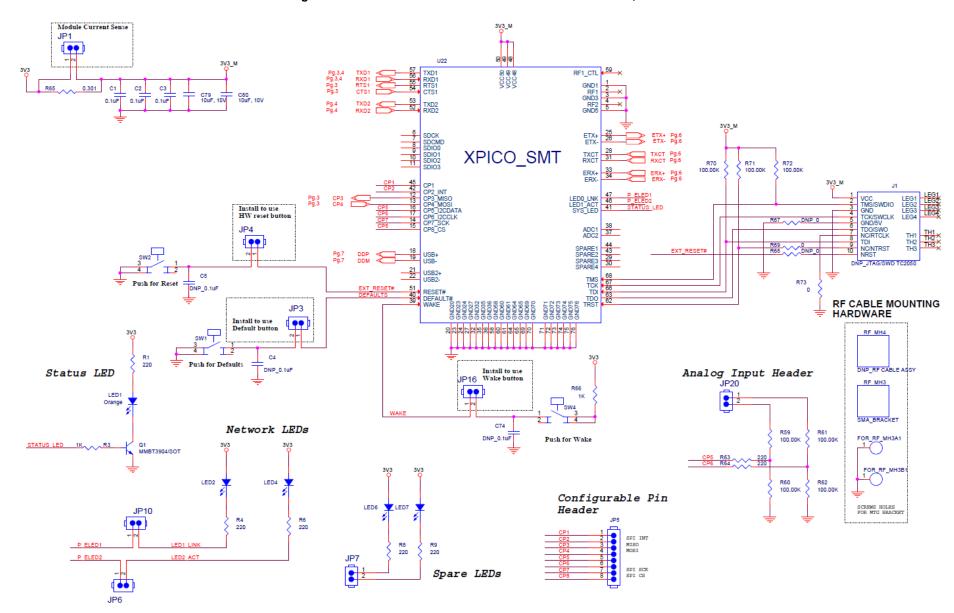


Figure 2-10 Evaluation Board Schematic for XPCW1003100K, Part 2 of 7

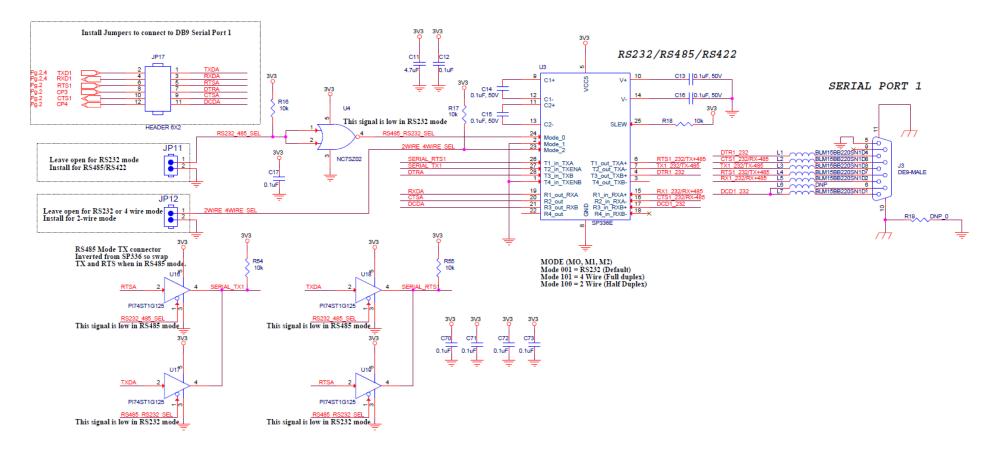


Figure 2-11 Evaluation Board Schematic for XPCW1003100K, Part 3 of 7

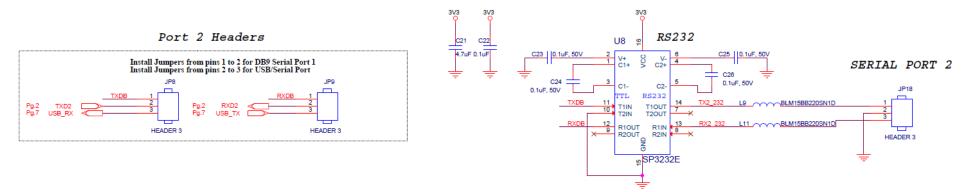
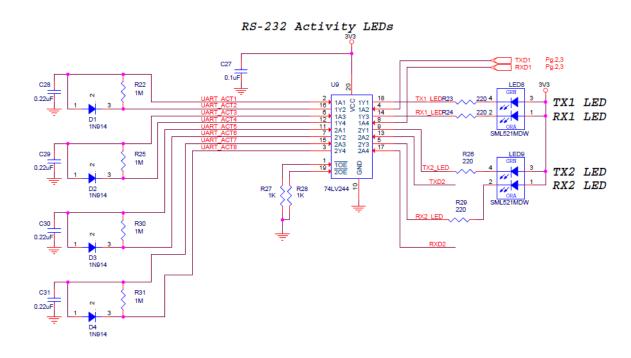


Figure 2-12 Evaluation Board Schematic for XPCW1003100K, Part 4 of 7



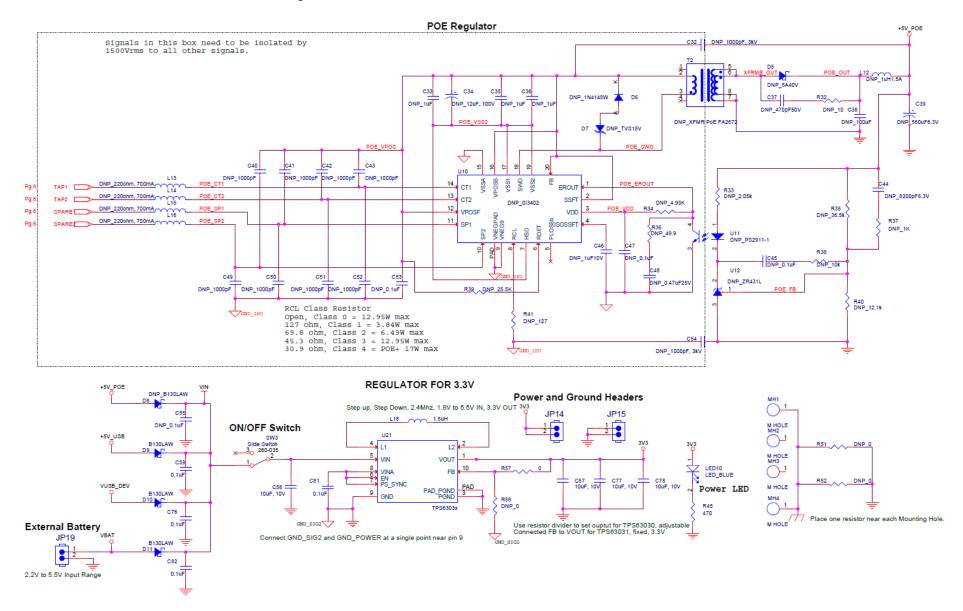


Figure 2-13 Evaluation Board Schematic for XPCW1003100K, Part 5 of 7

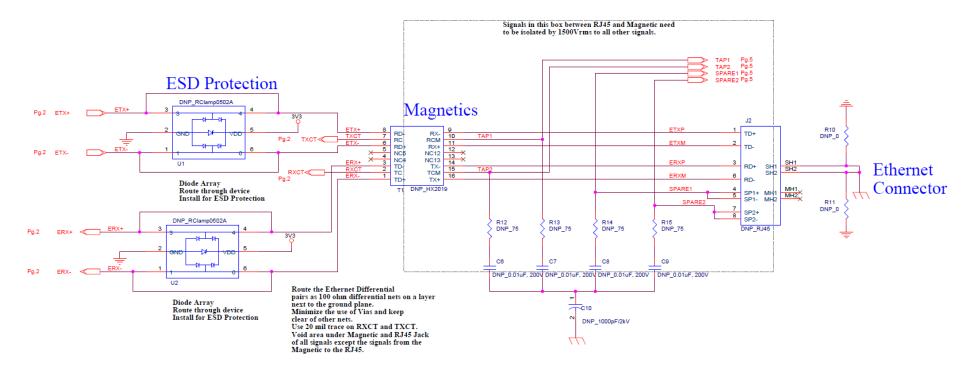


Figure 2-14 Evaluation Board Schematic for XPCW1003100K, Part 6 of 7

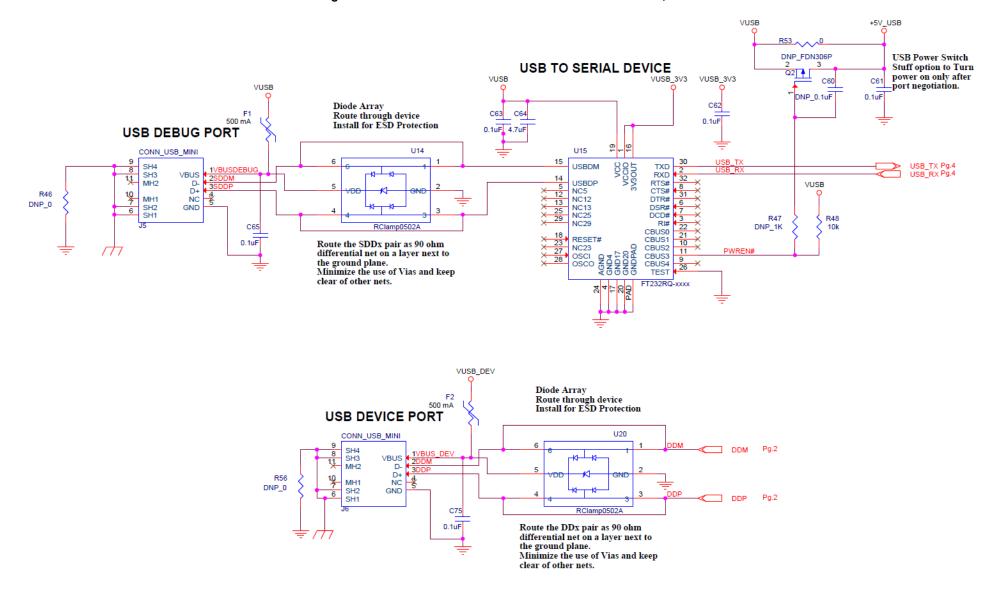


Figure 2-15 Evaluation Board Schematic for XPCW1003100K, Part 7 of 7