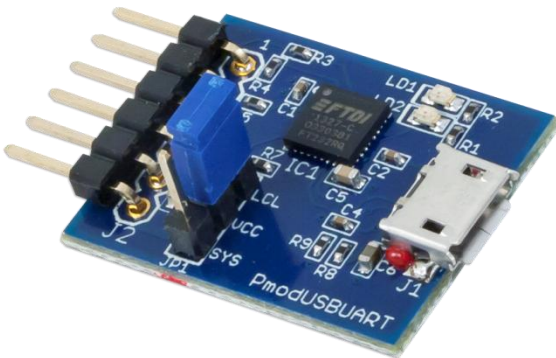# PmodUSBUART™ Reference Manual

Revised April 10, 2015
This manual applies to the PmodUSBUART rev. A

Overview

The PmodUSBUART module provides a USB to UART interface powered by the FTDI FT232RQ.   This Pmod is designed to be a direct replacement for the PmodRS232 and serial-to-USB cable combination.

Features include:

- USB to serial UART interface
- Option to power the system board through the FTDI chip

The PmodUSBUART.

1   Functional Description

The PmodUSBUART uses the standard 6-pin connector to connect to the host device and a micro USB connector to connect to a PC or other USB-capable device. The FTDI chip then converts the signal from UART to USB and vice-versa.

2   Interfacing with the Pmod

The UART connector allows UART communications to go from the FTDI chip to the connected board. Note that the PmodUSBUART uses the new Digilent UART pin configuration and requires the UART Crossover cable in order to use older boards. To see what configuration your board has, see your board's page at http://store.digilentinc.com.

Connector J2 – UART Communications		
Pin	**Signal**	**Description**
1	RTS	Ready to Send
2	RXD	Receive
3	TXD	Transmit
4	CTS	Clear to Send
5	GND	Ground
6	SYS3V3	Power Supply (3.3V)

Table 1. Pinout description table.

3 SYS3V3 Select (Header JP1)

The board attached to the PmodUSBUART can have its 3.3V rail powered by the header JP1. If jumper JP1 is set to SYS, then the SYS3V3 pin is powered by the VCC outputted by the FTDI chip. If the board attached to the PmodUSBUART is powered on its own, the jumper should be set to LCL.

4 LEDs

There are two LED indicators on the PmodUSBUART. LD1 indicates a data transfer from the micro-USB connector (J1) to the UART connector (J2). LD2 indicates a data transfer from the UART connector (J2) to the micro-USB connector (J1).

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