

XBEE Adapter Board (#32403)

This low cost adapter board is sold as a raw PCB and is perfect for interfacing any XBee or XBee Pro with the Propeller or any other 3.3 V microcontroller. Two 10-pin sockets with 2 mm spacing are included and can be soldered to the PCB for easy mounting of the XBEE RF Module. One 40-pin header with 0.1" spacing is also included and can be soldered to the PCB for easy accommodation to breadboard applications. Board dimensions: 1.16 x 1.0 in (2.95 x 2.56 cm)

Packing List

- (1) XBEE Adapter Board PCB
- (2) 1x10 2mm socket
- (1) 40-pin single row header



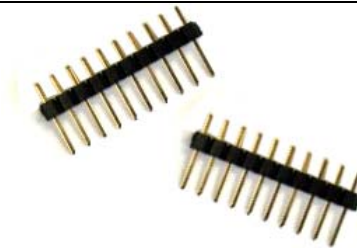
Tools required

- Soldering iron
- Solder
- Flux
- Diagonal cutters

Assembly Instructions

Step 1

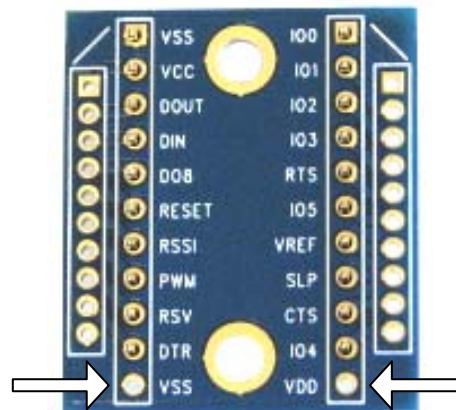
Cut the 40-pin male header down to two 10-pin headers.



Step 2

Place the male headers so that the shorter end sticks up through the top of the board, then solder in place.

NOTE: ALTHOUGH THERE ARE 11 PINS ON THE XBEE ADAPTER, THE LAST PIN IN EACH ROW (LABELED VDD AND VSS) ARE NOT NEEDED FOR THE XBEE MODULE AND SHOULD BE LEFT UNCONNECTED.



Step 3

Solder both sockets to the top of the board. When mounting the XBee, be sure to align the top notches with the markings on the top of the PCB.



XBee Requirements and Specifications

The XBee and XBee Pro RF Modules available from Parallax are only rated for 3.3 V, so care should be taken to ensure that the voltage supplied to the XBEE Adapter Board does not exceed this rating. For additional information visit the XBee RF Modules product page by searching for 32403 from the home page at www.parallax.com.

Pin	Name	Function
1	VSS	Ground → 0 V
2	VCC	Supply Voltage → 3.3 V
3	DOUT	UART Data Out †
4	DIN	UART Data In †
5	DO8	Digital Output 8 †
6	RESET	Module Reset †
7	RSSI	PWM Output 0 / RX Signal Strength Indicator †
8	PWM	PWM Output 1 †
9	RSV	Reserved (Do Not Connect) †
10	DTR	Pin Sleep Control Line or Digital Input 8 †
11	VSS	No Connect
12	VDD	No Connect
13	104	Analog Input 4 or Digital I/O 4 †
14	CTS	Clear-to-Send Flow Control or Digital I/O 7 †
15	SLP	Module Status Indicator †
16	VREF	Voltage Reference for A/D Inputs †
17	105	Associated Indicator, Analog Input 5 or Digital Input 5 †
18	RTS	Request-to-Send Flow Control, Analog Input 6 or Digital I/O 6 †
19	103	Analog Input 3 or Digital I/O 3 †
20	102	Analog Input 2 or Digital I/O 2 †
21	101	Analog Input 1 or Digital I/O 1 †
22	100	Analog Input 0 or Digital I/O 0 †

† Product Manual v1.xEx – 802.15.4 Protocol – Digi International Inc.