Xbee Shield For Arduino (no Xbee) (SKU:DFR0015)
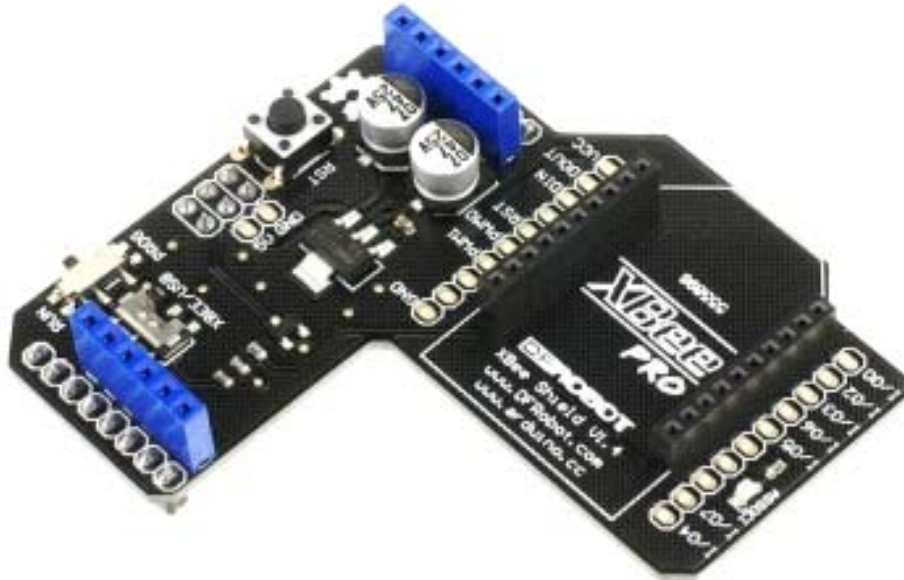

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Introduction

The *XBee Expansion Board (no XBee)* is a compliant solution designed to meet low-cost, low-power wireless sensor networks with special needs. The module is easy to use, low power consumption, and the provision of critical data between devices reliable transmission. As the innovative design, XBee-PRO can be in the range 2-3 times beyond the standard ZigBee modules. XBee-PRO modules work in the ISM 2.4 GHz frequency band. The MaxStream's XBee (1 mW) Zigbee module is pin-compatible.

The Xbee module is widely used in the United States, Canada, Australia, Israel and Europe. The establishment of RF communication does not require any configuration and the module's default configuration supports a wide range of data system applications. You can also use a simple AT command to advanced configuration. An OEM developer is now XBee code development package. It is self-developed in collaboration with the MaxStream ZigBee/802.15.4 RF module code.

Specification

- Direct support Arduino UNO, Arduino Duelimanove, DFRduino UNO
- Compatible with all Xbee interface devices:
- Xbee 1mw / 2mw
- Xbee Pro
- Xbee 2.5 series
- Bluetooth Bee
- Wireless Programming Module
- Jumper: Switch communication connection with the PC and the Arduino Xbee

PinOut
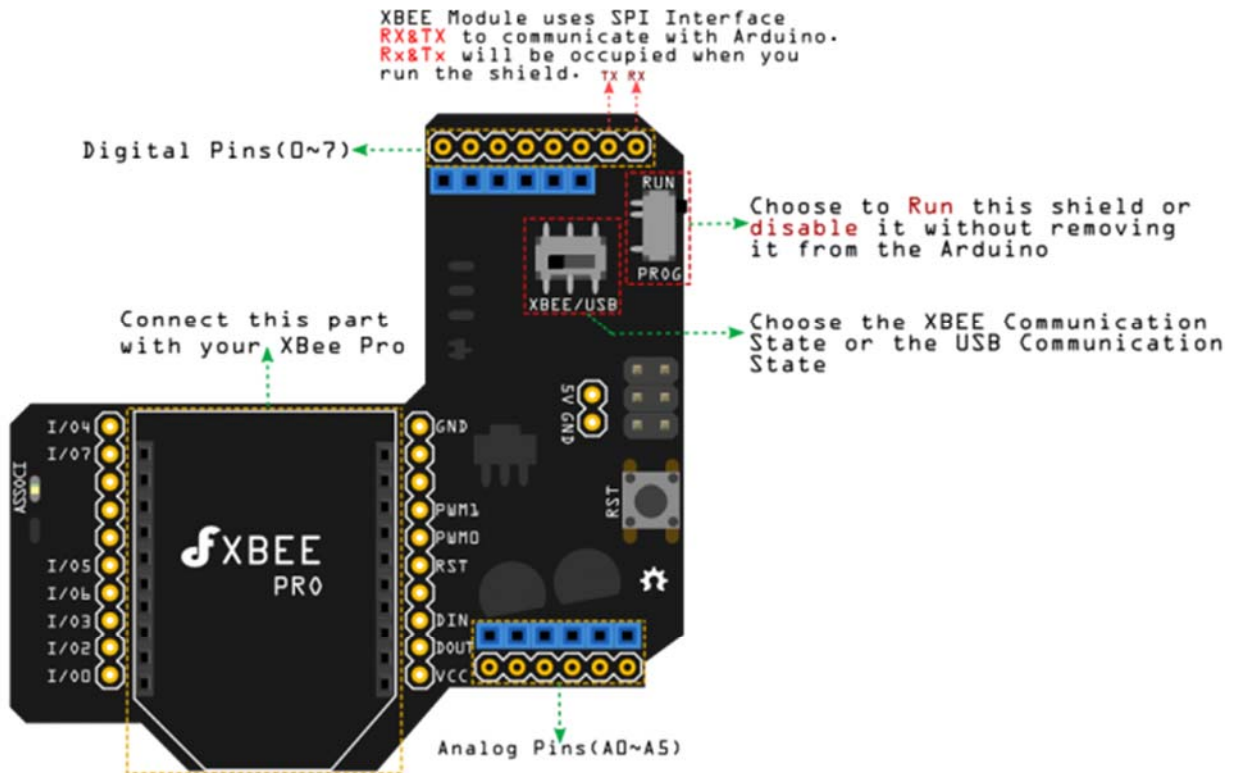
Instruction for the three communication states of the Xbee Shield

Communication State	Function
RUN-XBEE	Firstly, turn the swich to the RUN side. Xbee side: Let the Arduino communicate with the Xbee module directly.
RUN-USB	Firstly, turn the swich to the RUN side. USB side: Talk to the Xbee module directly from the PC.
PROG	Firstly, turn the swich to the PROG side. You can program the Arduino directly without removing the shield from the Arduino board.

More details

- RUN&USB Config xbee/bluetooth/wifi bee setting via PC using AT commands
- RUN&Xbee Drive the xbee module via Arduino TTL pins for sending commands
- PROG Turn to "PROG" when programming Arduino processors(UNO/Mega/ADK).

The PROG function is useless for Arduino Leonardo,because its programming interface is isolated from D0&D1 pins. And if using Arduino Leonardo,need to program a simple Serial to Serial1 transparent communication code to configure Xbee setting directly.