



PRODUCT NAME : ARPI 600 - Raspberry
Pi Expansion Board

PRICE : Rs 2,580.00

SKU : RM1356



DESCRIPTION

Overview

Arduino is a massive ecosystem, if there's a way for the Raspberry Pi GPIO interface to adapt to Arduino pinouts, it is possible to use the Pi together with vast Arduino shields and hardware/software resources. The ARPI600 is just intended for this.

What's more, the ARPI600 also support XBee modules, make it easy to add wireless feature to your great project.

Supported Pi

- [Raspberry Pi 1 Model A+](#)
- [Raspberry Pi 1 Model B+](#)
- [Raspberry Pi 2 Model B](#)

ARPI600 Features

- Compatible with Arduino UNO, Leonardo, easy to connect with various Arduino shields
- XBee connector for connecting various XBee modules
- Sensor interface for connecting various sensors
- Onboard USB TO UART for serial port debugging, also can be configured as XBee USB adapter
- Onboard ADC, 10 bit, 38KSPS, 11 channels (6 channels for Arduino interface, 5 channels for sensors)
- **Arduino connector** : for connecting Arduino shields
- **ICSP interface** : Arduino ICSP
- **XBee connector** : for connecting XBee communication modules
- **Sensor interface** : for connecting sensors
- **Raspberry Pi connector** : for connecting Raspberry Pi

- **USB TO UART**
- **TLC1543** : AD converter
- **PCF8563** : RTC
- **CP2102**
- **32.768KHz crystal** : for RTC
- **Power indicator**
- **XBee state LED**
- **XBee and Arduino interface RESET button**
- **XBee EASYLINK button**
- **RTC battery holder** : for CR1220 button battery
- **TLC1543 reference voltage configuration jumper**
- **RTC jumper**
- **UART jumper**
 - when connecting P_RX and CP_TX, P_TX and CP_RX respectively, USB TO UART is connected to Raspberry Pi serial port
 - when connecting XB_RX and CP_TX, XB_TX and CP_RX respectively, USB TO UART is connected to XBee serial port
 - when connecting XB_RX and P_TX, XB_TX and P_RX respectively, Raspberry Pi serial port is connected to XBee serial port
- **Arduino AD selection jumper**
 - short 2 and 3 : Arduino A0-A5 as AD input
 - short 1 and 2 : Arduino A0-A5 as digital control
- **Arduino I2C selection jumper**
 - short the jumper : Arduino A4-A5 as I2C control (the A4-A5 of Arduino AD selection jumper should be opened)
- **Arduino SPI selection jumper**
 - short 1 and 2 : Arduino D11-D13 as SPI control (default)
 - short 2 and 3 : Arduino D11-D13 as digital control
- Onboard RTC

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