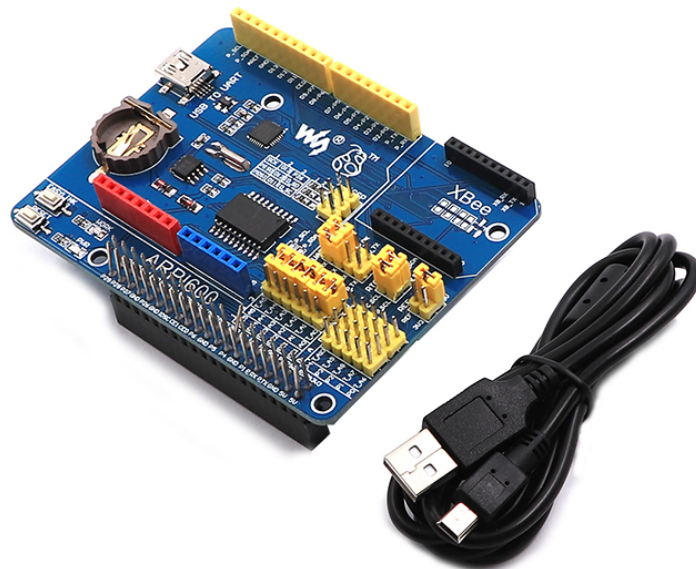# Arduino Adapter For Raspberry Pi

Model:ARPI600

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)
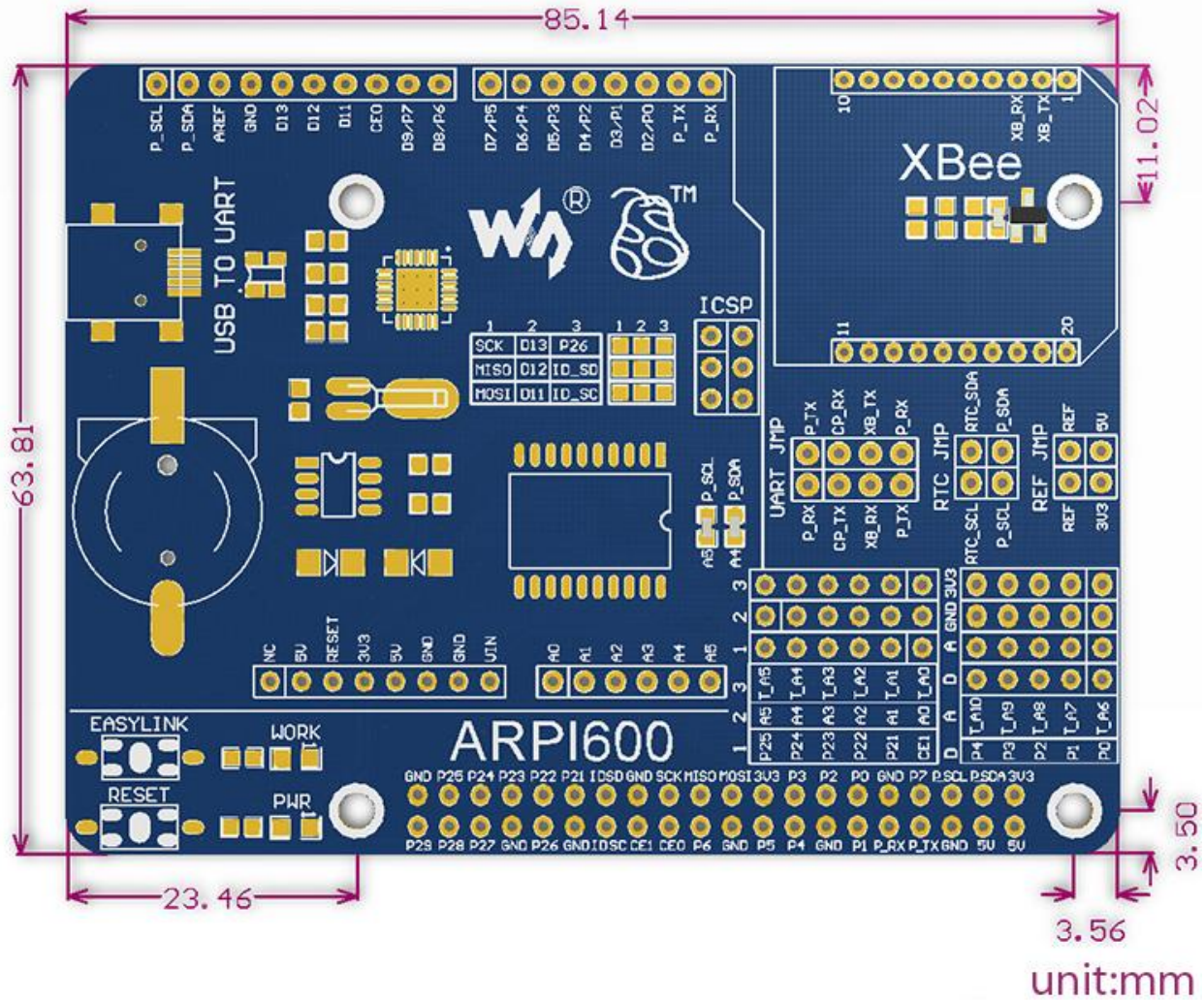- Onboard RTC

What's on the ARPI600
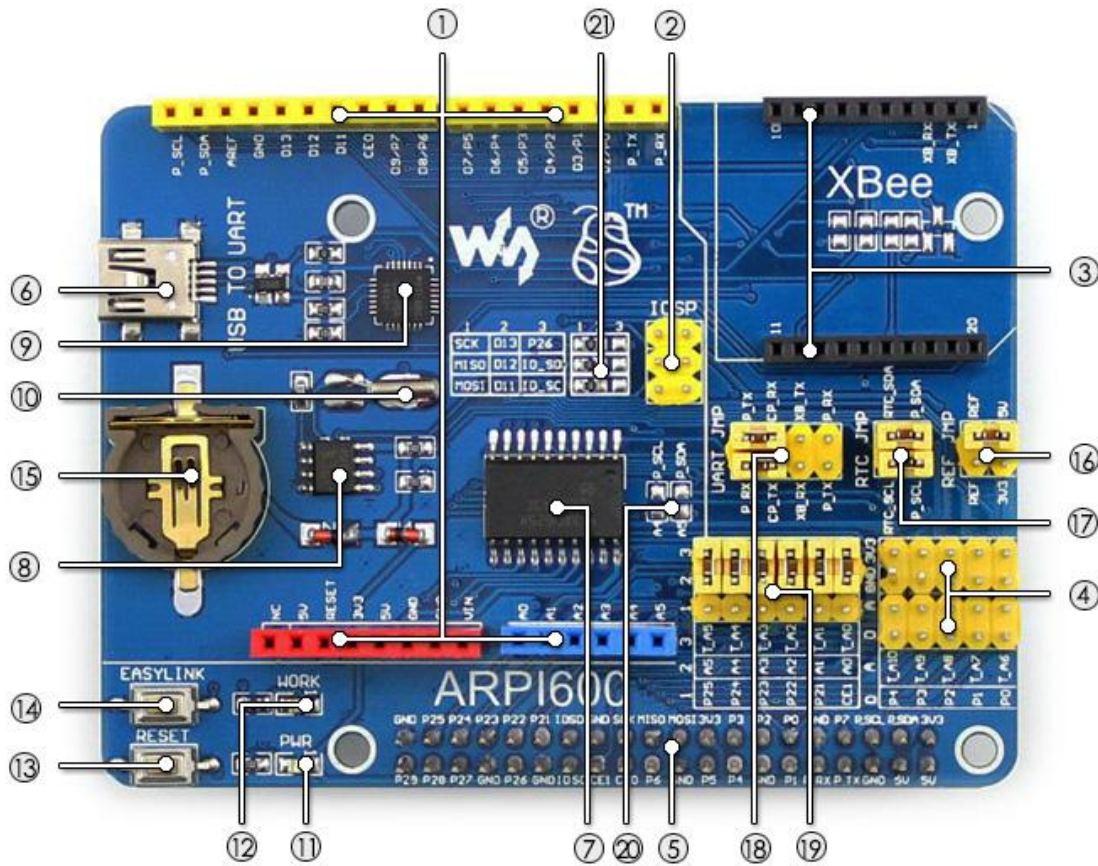
1. Arduino connector : for connecting Arduino shields
2. ICSP interface : Arduino ICSP
3. XBee connector : for connecting XBee communication modules
4. Sensor interface : for connecting sensors
5. Raspberry Pi connector : for connecting Raspberry Pi
6. USB TO UART
7. TLC1543 : AD converter
8. PCF8563 : RTC
9. CP2102
10. 32.768KHz crystal : for RTC
11. Power indicator
12. XBee state LED
13. XBee and Arduino interface RESET button
14. XBee EASYLINK button
15. RTC battery holder : for CR1220 button battery
16. TLC1543 reference voltage configuration jumper
17. RTC jumper
18. UART jumper
    o when connecting P_RX and CP_TX, P_TX and CP_RX respectively, USB TO UART is connected to Raspberry Pi serial port
    o when connecting XB_RX and CP_TX, XB_TX and CP_RX respectively, USB TO UART is connected to XBee serial port
    o when connecting XB_RX and P_TX, XB_TX and P_RX respectively, Raspberry Pi serial port is connected to XBee serial port

19. Arduino AD selection jumper
    o short 2 and 3 : Arduino A0-A5 as AD input
    o short 1 and 2 : Arduino A0-A5 as digital control
20. Arduino I2C selection jumper
    o short the jumper : Arduino A4-A5 as I2C control (the A4-A5 of Arduino AD selection jumper should be opened)
21. Arduino SPI selection jumper
    o short 1 and 2 : Arduino D11-D13 as SPI control (default)
    o short 2 and 3 : Arduino D11-D13 as digital control

ARPI600 Dimension

Made in China