



## Expansion Shield X300 for Raspberry Pi B+/2B/3B

SKU:DFR0358



### INTRODUCTION

Expansion Shield X300 is a one of the most cost-effective shield which could apply to Raspberry Pi Model B+, Raspberry Pi 2 Model B and newest Raspberry Pi 3 Model B. It integrates a lot of very useful functions such as RTC real time clock; audio input and output; USB hub; Bluetooth, WIFI; SATA interface. With this shield, you can build Raspberry Pi projects more easily and save both time and cost.

Compare with Expansion Shield X200. It adds some new features like SATA and Bluetooth, but it cancels HDMI and VGA video port. It is more suitable for project.

## FEATURES

- Input Voltage: 6V to 18Vdc converted to 5V, 4A via step-down DC/DC converter to power the Raspberry Pi
- SATA: Allows you to connect SATA devices to your Raspberry Pi
- Audio:
  - 1> 3.5mm MIC in jack
  - 2> 3.5mm stereo audio jack
  - 3> SPDIF output
  - 4> Audio IO connector (Microphone input and stereo audio amplifier 3.3Wx2)
- Wireless:
  - 1> WiFi (IEEE 802.11b/g/n) with external antenna
  - 2> IR sensor (38KHz)
  - 3> Bluetooth serial communication
- USB Storage: Self-powered USB hub with 3 ports
- Real-time clock (RTC): Based on DS3231SN with included CR2032 battery
- Misc:
  - 1> Power output socket
  - 2> Camera flex slot so camera can still be used with the expansion board attached
  - 3> DIP switch to remove connection from RPi's pin header
  - 4> Directly connected on top of the Raspberry Pi using the board GPIO header pins
  - 5> No wiring nor soldering is required
  - 6> Duplicated the 40-pin header of the R-Pi in order to support existing expansion boards
  - 7> Suitable for Raspberry Pi Model B+ and Raspberry Pi 2 Model B Dimensions: 85 x 56mm (Same size as Raspberry Pi)
- **Note: When you power Raspberry Pi with the shield power resource, please don't power it again via the Micro-USB port, it will damage the board!**

## SHIPPING LIST

- X300 Raspberry Pi expansion board    x1
- USB adapter                            x1
- 2.4GHz WIFI antenna    x1
- nylon spacers (M3 x 20mm)    x4
- nylon screws (M3 x 6mm)    x8