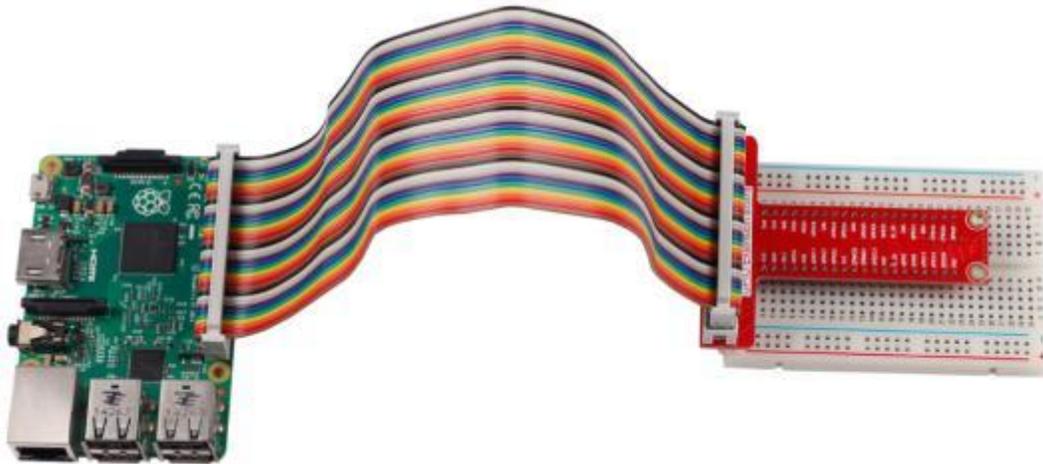


Introduction

This is 40-pin GPIO Extension Board and GPIO cable for Raspberry Pi model B+, 2 model B and 3 model B. It is used to lead out pins of Raspberry Pi to breadboard to avoid GPIO damage caused by frequent plugging in or out.



Connected with Raspberry Pi shown below, the principle is lead out the raspberry pi GPIO by GPIO cable to the GPIO pin extension board and extension board inserted into the breadboard, when you jump wire is inserted into the breadboard, equivalent inserted into the raspberry Pi GPIO.



Raspberry Pi Pin Number Introduction

The middle column is the pin names marked on the extension board, and the corresponding pin names are provided on its left and right for numbering by BCM and by wiringPi. The Name column is what the Raspberry Pi defines of the pin. "-" in two columns on the same line indicates the pin number and **name** is the same for the two numbering methods.

Besides, in Python, pins are usually defined by the physical position on the board. From top to bottom and left to right, the pin is defined as 3V3 (1), 5V0 (2), SDA1 (3), etc., till GPIO40. You'll get to more details in lessons later.

Name	wiringPi Pin	BCM GPIO	BCM GPIO	wiringPi Pin	Name
GPIO Extention Board					
3.3V	-	-	3V3	5V0	5V
SDA	8	R1:0/R2:2	SDA1	5V0	5V
SCL	9	R1:1/R2:3	SCL1	GND	0V
GPIO7	7	4	GPIO4	TXD0	TXD
GND	-	-	GND	RXD0	RXD
GPIO0	0	17	GPIO17	GPIO18	GPIO1
GPIO2	2	R1:21/R2:27	GPIO27	GND	0V
GPIO3	3	22	GPIO22	GPIO23	GPIO4
3.3v	-	-	3V3	GPIO24	GPIO5
MOSI	12	10	SPIMOSI	GND	0V
MISO	13	9	SPIMISO	GPIO25	GPIO6
SCLK	14	11	SPISCLK	SPICE0	CE0
0V	-	-	GND	SPICE1	CE1
ID_SDA	30	0	ID_SD	ID_SC	ID_SCL
GPIO21	21	5	GPIO5	GND	0V
GPIO22	22	6	GPIO6	GPIO12	GPIO26
GPIO23	23	13	GPIO13	GND	0V
GPIO24	24	19	GPIO19	GPIO16	GPIO27
GPIO25	25	26	GPIO26	GPIO20	GPIO28
GND	-	-	GND	GPIO21	GPIO29