

BOARD LABEL	BOARD ITEM	FUNCTION	CIRCUIT PYTHON NAME	GPIO	CHIP PIN#
RT	EXPANDER [E]	BOARD RESET	-	-	35
29	EXPANDER [E]	LED/IR INPUT	LED or IR	GPIO29	37
SL	EXPANDER [E]	I2C-0 SCL	SCL	GPIO21	21
SD	EXPANDER [E]	I2C-0 SDA	SDA	GPIO20	20
G	EXPANDER [E]	GND	-	-	-
G	EXPANDER [E]	GND	-	-	-
28	EXPANDER [E]	MISO	MISO	GPIO28	36
30	EXPANDER [E]	SCK	SCK	GPIO30	38
31	EXPANDER [E]	MOSI	MOSI	GPIO31	22
32	EXPANDER [E]	GPIO	GPIO32 or <i>NEOPIX*</i>	GPIO32	40
22	EXPANDER [E]	CS	CS or <i>PERIPH_RST*</i>	GPIO22	22
3V	EXPANDER [E]	3.3V	-	-	-
HSTX12	HSTX (HDMI)	HSTX VIDEO	CKN	GPIO12	11
HSTX13	HSTX (HDMI)	HSTX VIDEO	CKP	GPIO13	12
HSTX14	HSTX (HDMI)	HSTX VIDEO	D0N	GPIO14	13
HSTX15	HSTX (HDMI)	HSTX VIDEO	D0P	GPIO15	14
HSTX16	HSTX (HDMI)	HSTX VIDEO	D1N	GPIO16	15
HSTX17	HSTX (HDMI)	HSTX VIDEO	D1P	GPIO17	16
HSTX18	HSTX (HDMI)	HSTX VIDEO	D2N	GPIO18	17
HSTX19	HSTX (HDMI)	HSTX VIDEO	D2P	GPIO19	18
I2S_DIN	I2S AUDIO	I2S AUDIO	I2S_DIN	GPIO24	25
I2S_MCLK	I2S AUDIO	I2S AUDIO	I2S_MCLK	GPIO25	26
I2S_BCLK	I2S AUDIO	I2S AUDIO	I2S_BCLK	GPIO26	27
I2S_LRCLK	I2S AUDIO	I2S AUDIO	I2S_WS	GPIO27	28
BUTTON2	USER BUTTON	USER BUTTON	BUTTON2	GPIO4	1
BUTTON3	USER BUTTON	USER BUTTON	BUTTON3	GPIO5	2
5V	EXPANDER [A]	5V	-	-	-
3	EXPANDER [A]	GPIO	GPIO3 or <i>ESP_BUSY*</i>	GPIO3	80
D-	EXPANDER [A]	USB HUB D-4	-	-	-
D+	EXPANDER [A]	USB HUB D+4	-	-	-
G	EXPANDER [A]	GND	-	-	-
G	EXPANDER [A]	GND	-	-	-
10	EXPANDER [A]	GPIO	D10	GPIO10	8
D9	EXPANDER [A]	GPIO	D9 or RX or <i>ESP_RX*</i>	GPIO09	7
D8	EXPANDER [A]	GPIO	D8 or TX or <i>ESP_TX*</i>	GPIO08	6
D6	EXPANDER [A]	GPIO	D6	GPIO06	3
D7	EXPANDER [A]	GPIO	D7	GPIO07	4
3V	EXPANDER [A]	3.3V	-	-	-
A4	EXPANDER [B]	GPIO	A4	GPIO44	55
A3	EXPANDER [B]	GPIO	A3	GPIO43	54
BT	EXPANDER [B]	BOOT	BOOT or <i>BUTTON1</i>	GPIO0	77
3V	EXPANDER [B]	3.3V	N/A	-	-
G	EXPANDER [B]	GND	-	-	-
G	EXPANDER [B]	GND	-	-	-
A2	EXPANDER [B]	GPIO	A2	GPIO42	53
A1	EXPANDER [B]	GPIO	A1	GPIO41	52
A0	EXPANDER [B]	GPIO	A0	GPIO40	49
A5	EXPANDER [B]	GPIO	A5	GPIO45	56
A6	EXPANDER [B]	GPIO	A6 or <i>ESP_CS*</i>	GPIO46	57
3V	EXPANDER [B]	3.3V	-	-	-
USB1-4	USB HUB	USB PORTS 1-4	-	-	-
USB_HOST_DATA_PLUS	USB HUB	USB HUB D+	-	GPIO1	80
USB_HOST_DATA_MINUS	USB HUB	USB HUB D-	-	GPIO2	79
USB_HOST_5V_POWER	USB HUB	USB_HOST 5V POWER	-	GPIO11	9
SD_DETECT	SD CARD	SD DETECT	SD_CARD_DETECT	GPIO33	42
SDIO_CLK	SD CARD	SDIO CLOCK	SDIO_CLOCK or SD_SCK	GPIO34	43
SDIO_COMMAND	SD CARD	SDIO COMMAND	SDIO_COMMAND or SD_MOSI	GPIO35	44
SDIO_DATA0	SD CARD	SDIO DATA0	SDIO_DATA0 or SD_MISO	GPIO36	45
SDIO_DATA1	SD CARD	SDIO DATA1	SDIO_DAT1	GPIO37	46
SDIO_DATA2	SD CARD	SDIO DATA2	SDIO_DAT2	GPIO38	47
SDIO_DATA3	SD CARD	SDIO DATA3	SDIO_DATA3 or SD_CS	GPIO39	48
SD	SWD CONNECTOR	SWD	SWD	SWDIO	34
SC	SWD CONNECTOR	SWC	SWC	SWCLK	33
G	SWD CONNECTOR	GND	-	-	-

* Indicates the required pin names to be used with the Adafruit Fruit Jam Circuit Python Firmware (in italics). If you are using the BrainBoardz BZBoard Firmware the alternative pins names are maintained for consistency.

Note: GPIO23 (*I2S_IRQ*) is not available on the BZBOARD RP2DV "Jammy"