

BeagleBone w/ MuntOS Expansion Header Pinouts

P9

	DGND	1	2	DGND	
	VDD 3.3	3	4	VDD 3.3	
	VDD 5V	5	6	VDD 5V	
	SYS 5V	7	8	SYS 5V	
	PWR_BUT	9	10	SYS_RESETN	
UART4 RXD	GPIO30	11	12	GPIO60	
UART4 TXD	GPIO31	13	14	GPIO50	
	GPIO48	15	16	GPIO51	
	GPIO5	17	18	GPIO4	
I2C2 SCL	GPIO13	19	20	GPIO12	I2C2 SDA
UART2 TXD	GPIO3	21	22	GPIO2	UART2 RXD
	GPIO49	23	24	GPIO15	UART1 TXD
	GPIO117	25	26	GPIO14	UART1 RXD
	GPIO115	27	28	GPIO113	SPI1 SS0
SPI1 MISO	GPIO111	29	30	GPIO112	SPI1 MOSI
SPI1 SCLK	GPIO110	31	32	VDD_ADC	
	AIN4	33	34	GND_ADC	
	AIN6	35	36	AIN5	
	AIN2	37	38	AIN3	
	AIN0	39	40	AIN1	
	GPIO20	41	42	GPIO7	SPI1 SS1
	DGND	43	44	DGND	
	DGND	45	46	DGND	

P8

	DGND	1	2	DGND	
MMC1 DAT6	GPIO38	3	4	GPIO39	MMC1 DAT7
MMC1 DAT2	GPIO34	5	6	GPIO35	MMC1 DAT3
	GPIO66	7	8	GPIO67	
	GPIO69	9	10	GPIO68	
	GPIO45	11	12	GPIO44	
	GPIO23	13	14	GPIO26	
	GPIO47	15	16	GPIO46	
	GPIO27	17	18	GPIO65	
	GPIO22	19	20	GPIO63	MMC1 CMD
MMC1 CLK	GPIO62	21	22	GPIO37	MMC1 DAT5
MMC1 DAT4	GPIO36	23	24	GPIO33	MMC1 DAT1
MMC1 DAT0	GPIO32	25	26	GPIO61	
	GPIO86	27	28	GPIO88	
	GPIO87	29	30	GPIO89	
	GPIO10	31	32	GPIO11	
	GPIO9	33	34	GPIO81	
	GPIO8	35	36	GPIO80	
UART5 TXD	GPIO78	37	38	GPIO79	UART5 RXD
	GPIO76	39	40	GPIO77	
	GPIO74	41	42	GPIO75	
	GPIO72	43	44	GPIO73	
	GPIO70	45	46	GPIO71	

Notes: 1. The MMC pins are available for GPIO only on the BeagleBone White, and only if the **BB-NOEMMC** device tree overlay is applied.

Revised 20 December 2022