BeagleBone Black expansion header P8

Pin	CPU Pin	Pin Name	Pin Nummer Pinmux register offse	t mode 0	mode 1	mode 2	mode 3	mode 4	mode 5	mode 6	mode 7
	GND										
	GND										
	R9	GPMC_AD6	0x818	gpmc_ad6	mmc1_dat6						*gpio1_6
	T9	GPMC_AD7	0x81C	gpmc_ad7	mmc1_dat7						*gpio1_7
	R8	GPMC_AD2	0x808	gpmc_ad2	mmc1_dat2						*gpio1_2
	T8	GPMC_AD3	0x80C	gpmc_ad3	mmc1_dat3						*gpio1_3
'	R7	GPMC_ADVn_ALE	0x890	gpmc_advn_ale		timer4					*gpio2_2
3	T7	GPMC_OEn_REn	0x894	gpmc_oen_ren		timer7					*gpio2_3
9	T6	GPMC_BEn0_CLE	0x89C	gpmc_be0n_cle		timer5					*gpio2_5
.0	U6	GPMC_WEn	0x898	gpmc_wen		timer6					*gpio2_4
.1	R12	GPMC_AD13	0x834	gpmc_ad13	lcd_data18	mmc1_dat5	mmc2_dat1	eQEP2B_in	pr1_mii0_txd1	pr1_pru0_pru_r30_15	*gpio1_13
2	T12	GPMC_AD12	0x830	gpmc_ad12	lcd_data19	mmc1_dat4	mmc2_dat0	eQEP2A_in	pr1_mii0_txd2	pr1_pru0_pru_r30_14	*gpio1_12
3	T10	GPMC_AD9	0x824	gpmc_ad9	lcd_data22	mmc1_dat1	mmc2_dat5	ehrpwm2B	pr1_mii0_col		*gpio0_23
4	T11	GPMC_AD10	0x828	gpmc_ad10	lcd_data21	mmc1_dat2	mmc2_dat6	ehrpwm2_tripzone_inp			*gpio0_26
L5	U13	GPMC_AD15	0x83C	gpmc_ad15	lcd_data16	mmc1_dat7	mmc2_dat3	eQEP2_strobe	pr1_ecap0_ecap_capin_apwm_o		*gpio1_15
.6	V13	GPMC_AD14	0x838	gpmc_ad14	lcd_data17	mmc1_dat6	mmc2_dat2	eQEP2_index	pr1_mii0_txd0	pr1_pru0_pru_r31_14	*gpio1_14
.7	U12	GPMC_AD11	0x82C	gpmc_ad11	lcd_data20	mmc1_dat3	mmc2_dat7	ehrpwm0_synco	pr1_mii0_txd3		*gpio0_27
18	V12	GPMC_CLK	0x88C	gpmc_clk	lcd_memory_clk	gpmc_wait1	mmc2_clk	pr1_mii1_crs	pr1_mdio_mdclk	mcasp0_fsr	*gpio2_1
.9	U10	GPMC_AD8	0x820	gpmc_ad8	lcd_data23	mmc1_dat0	mmc2_dat4	ehrpwm2A	pr1_mii_mt0_clk		*gpio0_22
0	V9	GPMC_CSn2	0x884	gpmc_csn2	gpmc_be1n	mmc1_cmd	pr1_edio_data_in7	pr1_edio_data_out7	pr1_pru1_pru_r30_13	pr1_pru1_pru_r31_13	*gpio1_31
1	U9	GPMC_CSn1	0x880	gpmc_csn1	gpmc_clk	mmc1_clk	pr1_edio_data_in6	pr1_edio_data_out6	pr1_pru1_pru_r30_12	pr1_pru1_pru_r31_12	*gpio1_30
22	V8	GPMC_AD5	0x814	gpmc_ad5	mmc1_dat5						*gpio1_5
23	U8	GPMC_AD4	0x810	gpmc_ad4	mmc1_dat4						*gpio1_4
24	V7	GPMC_AD1	0x804	gpmc_ad1	mmc1_dat1						*gpio1_1
25	U7	GPMC_AD0	0x800	gpmc_ad0	mmc1_dat0						*gpio1_0
26	V6	GPMC_CSn0	0x87C	gpmc_csn0							*gpio1_29
27	U5	LCD_VSYNC	0x8E0	lcd_vsync	gpmc_a8	gpmc_a1	pr1_edio_data_in2	pr1_edio_data_out2	pr1_pru1_pru_r30_8	pr1_pru1_pru_r31_8	*gpio2_22
28	V5	LCD_PCLK	0x8E8	lcd_pclk	gpmc_a10	pr1_mii0_crs	pr1_edio_data_in4	pr1_edio_data_out4	pr1_pru1_pru_r30_10	pr1_pru1_pru_r31_10	*gpio2_24
29	R5	LCD_HSYNC	0x8E4	lcd_hsync	gpmc_a9	gpmc_a2	pr1_edio_data_in3	pr1_edio_data_out3	pr1_pru1_pru_r30_9	pr1_pru1_pru_r31_9	*gpio2_23
30	R6	LCD_AC_BIAS_EN	0x8EC	lcd_ac_bias_en	gpmc_a11	pr1_mii1_crs	pr1_edio_data_in5	pr1_edio_data_out5	pr1_pru1_pru_r30_11	pr1_pru1_pru_r31_11	*gpio2_25
31	V4	LCD_DATA14	0x8D8	lcd_data14	gpmc_a18	eQEP1_index	mcasp0_axr1	uart5_rxd	pr1_mii_mr0_clk	uart5_ctsn	*gpio0_10
32	T5	LCD_DATA15	0x8DC	lcd_data15	gpmc_a19	eQEP1_strobe	mcasp0_ahclkx	mcasp0_axr3	pr1_mii0_rxdv	uart5_rtsn	*gpio0_11
33	V3	LCD_DATA13	0x8D4	lcd_data13	gpmc_a17	eQEP1B_in	mcasp0_fsr	mcasp0_axr3	pr1_mii0_rxer	uart4_rtsn	*gpio0_9
34	U4	LCD_DATA11	0x8CC	lcd_data11	gpmc_a15	ehrpwm1B	mcasp0_ahclkr	mcasp0_axr2	pr1_mii0_rxd0	uart3_rtsn	*gpio2_17
35	V2	LCD_DATA12	0x8D0	lcd_data12	gpmc_a16	eQEP1A_in	mcasp0_aclkr	mcasp0_axr2	pr1_mii0_rxlink	uart4_ctsn	*gpio0_8
36	U3	LCD_DATA10	0x8C8	lcd_data10	gpmc_a14	ehrpwm1A	mcasp0_axr0		pr1_mii0_rxd1	uart3_ctsn	*gpio2_16
37	U1	LCD_DATA8	0x8C0	lcd_data8	gpmc_a12	ehrpwm1_tripzone_input	mcasp0_aclkx	uart5_txd	pr1_mii0_rxd3	uart2_ctsn	*gpio2_14
88	U2	LCD_DATA9	0x8C4	lcd_data9	gpmc_a13	ehrpwm0_synco	mcasp0_fsx	uart5_rxd	pr1_mii0_rxd2	uart2_rtsn	*gpio2_15
39	T3	LCD_DATA6	0x8B8	lcd_data6	gpmc_a6	pr1_edio_data_in6	eQEP2_index	pr1_edio_data_out6	pr1_pru1_pru_r30_6	pr1_pru1_pru_r31_6	*gpio2_12
0	T4	LCD_DATA7	0x8BC	lcd_data7	gpmc_a7	pr1_edio_data_in7	eQEP2_strobe	pr1_edio_data_out7	pr1_pru1_pru_r30_7	pr1_pru1_pru_r31_7	*gpio2_13
1	T1	LCD_DATA4	0x8B0	lcd_data4	gpmc_a4	pr1_mii0_txd1	eQEP2A_in		pr1_pru1_pru_r30_4	pr1_pru1_pru_r31_4	*gpio2_10
12	T2	LCD_DATA5	0x8B4	lcd_data5	gpmc_a5	pr1_mii0_txd0	eQEP2B_in		pr1_pru1_pru_r30_5	pr1_pru1_pru_r31_5	*gpio2_11
13	R3	LCD_DATA2	0x8A8	lcd_data2	gpmc_a2	pr1_mii0_txd3	ehrpwm2_tripzone_input		pr1_pru1_pru_r30_2	pr1_pru1_pru_r31_2	*gpio2_8
4	R4	LCD_DATA3	0x8AC	lcd_data3	gpmc_a3	pr1_mii0_txd2	ehrpwm0_synco		pr1_pru1_pru_r30_3	pr1_pru1_pru_r31_3	*gpio2_9
			0.040	lad data0	anna a0	nut maii matO alle	ehrpwm2A		pr1_pru1_pru_r30_0	pr1 pru1 pru r21 0	*gpio2 6
15	R1	LCD DATA0	0x8A0	lcd data0	gpmc a0	pr1 mii mt0 clk	enipwinza		pri prui pru 130 0	pr1 pru1 pru r31 0	"gpioz o

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Pin	CPU Pin	Pin Name		Pinmux register offset	mode 0	mode 1	mode 2	mode 3	mode 4	mode 5	mode 6	mode 7
1	GND	11111441115		I IIIIIax regictor enect	mode o	mode I	111000 2	mede 5	mode i	1110400	mode c	modo i
2	GND											
3	3.3V											_
4	3.3V											
	VDD 5V											+
	VDD_5V											+
	SYS 5V											+
	SYS 5V											
	WR BUT											+
10		WARMRSTn		0x9B8	*nRESETIN OUT							+
11		GPMC WAITO		0x870	gpmc_wait0	gmii2 crs	gpmc csn4	rmii2 crs dv	mmc1 sdcd	pr1 mii1 col	uart4 rxd	*gpio0 30
12		GPMC BEn1		0x878	gpmc_watto	gmii2_crs	gpmc_csn6	mmc2 dat3	gpmc dir	pr1 mii1 rxlink	mcasp0 aclkr	*gpio1_28
13		GPMC WPn		0x874	gpmc_bein	gmii2_cor	apmc_csn5	rmii2 rxerr	mmc2 sdcd	pr1 mii1 txen	uart4 txd	*gpio1_20
14		GPMC A2		0x848	gpmc_wpm	gmii2_txd3	rgmii2 td3	mmc2 dat1	gpmc a18	pr1 mii1 txd2	ehrpwm1A	*gpio1_18
15		GPMC_A0		0x840	gpmc_a2	gmii2_txd5	rgmii2_td3	rmii2 txen	gpmc_a16	pr1 mii mt1 clk		
16		GPMC_A3		0x84C	gpmc_ao	gmii2_txd2	rgmii2_td2	mmc2 dat2	gpmc_a19	pr1 mii1 txd1	ehrpwm1B	*gpio1_10
17		SPI0 CS0		0x95C	spi0 cs0		I2C1 SCL	ehrpwm0 synci	pr1 uart0 txd	pr1 edio data in1	pr1 edio data out1	*gpio1_13
18		SPI0_D1		0x958	sni0_d1	mmc1 sdwp	I2C1_SCL	ehrpwm0_synci	pr1_uart0_txd	pr1 edio data in0	pr1 edio data out0	*gpio0_3
19	D17	UART1 RTSn		0x97C	uart1 rtsn	timer5	dcan0 rx	I2C2 SCI	spi1 cs1	pr1 uart0 rts n	pr1_edc latch1 in	*gpio0_4
20	D18	UART1 CTSn		0x978	uart1_rtsn	timer6	dcan0_tx	12C2 SDA	spi1_cs0	pr1 uart0 cts n	pr1_edc_latch0_in	*gpio0_12
21		SPI0 D0		0x954	spi0 d0		I2C2 SCL	ehrpwm0B	pr1 uart0 rts n	pr1 edio latch in	EMU3	*gpio0_12
22		SPI0_B0		0x950	spi0_do	uart2_rxd	I2C2 SDA	ehrpwm0A	pr1_uart0_rts_n	pr1 edio sof	EMU2	*gpio0_5
23		GPMC A1		0x844	gpmc a1	gmii2 rxdv	rgmii2 rctl	mmc2 dat0	gpmc a17	pr1 mii1 txd3	ehrpwm0 synco	*gpio1_17
24	D15	UART1 TXD		0x984	uart1 txd	mmc2 sdwp	dcan1 rx	I2C1 SCL	gpine_u17	pr1 uart0 txd	pr1 pru0 pru r31 16	*gpio0_17
25		MCASPO AHCLKX		0x9AC	mcasp0 ahclkx	eQEP0 strobe	mcasp0 axr3	mcasp1 axr1	EMU4	pr1 pru0 pru r30 7	pr1 pru0 pru r31 7	*gpio3_21
26	D16	UART1 RXD		0x980	uart1 rxd	mmc1 sdwp	dcan1_tx	I2C1 SDA	EMOT	pr1 uart0 rxd	pr1 pru1 pru r31 16	*gpio0_21
27		MCASPO FSR		0x9A4	mcasp0 fsr	eQEP0B in	mcasp0 axr3	mcasp1 fsx	EMU2	pr1 pru0 pru r30 5	pr1 pru0 pru r31 5	*gpio3_19
28	C12		100	0x99C	mcasp0_isi	ehrpwm0 synci	mcasp0_axr2	spi1 cs0	eCAP2 in PWM2 out	pr1 pru0 pru r30 3	pr1 pru0 pru r31 3	*gpio3_17 H
29		MCASPO FSX	100	0x994	mcasp0_triciki	ehrpwm0B	measpo_axr2	spi1_ess	mmc1 sdcd	pr1 pru0 pru r30 1	pr1 pru0 pru r31 1	*gpio3_17
30		MCASPO AXRO		0x998	mcasp0_axr0	ehrpwm0 tripzone input		spi1 d1	mmc2 sdcd	pr1 pru0 pru r30 2	pr1 pru0 pru r31 2	*gpio3_16
31		MCASPO ACLKX		0x990	mcasp0_aclkx	ehrpwm0A		spi1_sclk	mmc0_sdcd	pr1 pru0 pru r30 0	pr1 pru0 pru r31 0	*gpio3_14
32	VADC	11101101101101		0,000	поскоро_сопох	in primer t		5512_561K		p.1_p.uo_p.uco_c	p.1_p.uo_p.uo1_o	gp.00_1 1
33		AIN4			*AIN4							
34	AGND					1						_
35		AIN6			*AIN6	1						_
36		AIN5			*AIN5							
37		AIN2			*AIN2							_
38		AIN3			*AIN3							_
39		AIN0			*AIN0							_
40		AIN1			*AIN1							
41		XDMA EVENT INTR1		0x9B4	xdma event intr1		tclkin	clkout2	timer7	pr1 pru0 pru r31 16	EMU3	*gpio0 20
41,1		MCASP0 AXR1		0x9A8	mcasp0 axr1	eQEP0 index		mcasp1 axr0	EMU3	pr1 pru0 pru r30 6	pr1 pru0 pru r31 6	*gpio3 20
42		ECAPO IN PWM0 OUT		0x964	eCAP0 in PWM0 out		spi1 cs1	pr1 ecap0 ecap capin apwm o	spi1 sclk	mmc0 sdwp	xdma event intr2	*gpio0_7
42,1		MCASPO ACLKR		0x9A0	mcasp0 aclkr	eQEP0A in	mcasp0 axr2	mcasp1 aclkx	mmc0 sdwp	pr1 pru0 pru r30 4	pr1 pru0 pru r31 4	*gpio3 18
4Z,1		<u> </u>		-	10.0-00	+ * -	1		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	, <u> </u>	<u> </u>	J
42,1	GND											1
	GND GND											
43												