



**Pin Information for the Cyclone® III EP3C10 Device**  
**Version 1.4**  
**Notes (1), (2)**

Bank Number	VREFB Group	Pin Name/ Function	Optional Function(s)	Configuration Function	E144 (3)	M164	F256/ U256	DQS for X8/X9 in E144	DQS for X8/X9 in M164	DQS for X8/X9 in F256/U256	DQS for X16/X18 in F256/U256
B1	VREFB1N0	IO			1	B2	D4				
B1	VREFB1N0	IO			2	B1	E5				
B1	VREFB1N0	IO			3	A1	F5				
B1	VREFB1N0	IO			4	C1	B1			DQS2L/CQ3L	DQS2L/CQ3L
B1	VREFB1N0	VCCINT			5						
B1	VREFB1N0	IO	DIFFIO_L1p				C2				
B1	VREFB1N0	IO	DIFFIO_L1n	DATA1, ASDO	6	D2	C1				
B1	VREFB1N0	IO	VREFB1N0		7	D1	F3				
B1	VREFB1N0	IO	DIFFIO_L2p	FLASH_nCE, nCSO	8	E1	D2				
B1	VREFB1N0	IO	DIFFIO_L2n				D1				
B1	VREFB1N0	nSTATUS		nSTATUS	9	E2	F4				
B1	VREFB1N0	IO					G5				
B1	VREFB1N0	IO	DIFFIO_L3p				F2				
B1	VREFB1N0	IO	DIFFIO_L3n				F1				
B1	VREFB1N0	IO	DIFFIO_L4p		10	F2	G2	DQS0L/CQ1L, DPCLK0	DQS0L/CQ1L, DPCLK0	DQS0L/CQ1L, DPCLK0	DQS0L/CQ1L, DPCLK0
B1	VREFB1N0	IO	DIFFIO_L4n		11	F1	G1				
B1	VREFB1N0	DCLK		DCLK	12	F3	H1				
B1	VREFB1N0	IO		DATA0	13	G1	H2				
B1	VREFB1N0	nCONFIG		nCONFIG	14	G2	H5				
B1	VREFB1N0	TDI		TDI	15	G3	H4				
B1	VREFB1N0	TCK		TCK	16	H2	H3				
B1	VREFB1N0	VCCIO1			17						
B1	VREFB1N0	TMS		TMS	18	H1	J5				
B1	VREFB1N0	GND			19						
B1	VREFB1N0	TDO		TDO	20	H3	J4				
B1	VREFB1N0	nCE		nCE	21	H4	J3				
B1	VREFB1N0	CLK0	DIFFCLK_0p		22	J2	E2				
B1	VREFB1N0	CLK1	DIFFCLK_0n		23	J1	E1				
B2	VREFB2N0	CLK2	DIFFCLK_1p		24	K3	M2				
B2	VREFB2N0	CLK3	DIFFCLK_1n		25	J3	M1				
B2	VREFB2N0	IO	DIFFIO_L5p				J2			DQ1L	
B2	VREFB2N0	IO	DIFFIO_L5n				J1			DQ1L	
B2	VREFB2N0	IO					J6				
B2	VREFB2N0	VCCIO2			26						
B2	VREFB2N0	IO	DIFFIO_L6p				K6				
B2	VREFB2N0	GND			27						
B2	VREFB2N0	IO	DIFFIO_L6n		28	K1	L6				
B2	VREFB2N0	VCCINT			29						
B2	VREFB2N0	IO	DIFFIO_L7p				K2				
B2	VREFB2N0	IO	DIFFIO_L7n				K1			DQ1L	
B2	VREFB2N0	IO	DIFFIO_L8p		30	L2	L2	DQS1L/CQ1L#, DPCLK1	DQS1L/CQ1L#, DPCLK1	DQS1L/CQ1L#, DPCLK1	DQS1L/CQ1L#, DPCLK1
B2	VREFB2N0	IO	DIFFIO_L8n				K2			DQ1L	
B2	VREFB2N0	IO	VREFB2N0		31		L1				
B2	VREFB2N0	IO	DIFFIO_L9p				L3			DQ1L	



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B2	VREFB2N0	IO	DIFFIO_L9n				N1			DQ1L	
B2	VREFB2N0	IO	RUP1		32	M1	K5			DQ1L	
B2	VREFB2N0	IO	RDN1		33	M2	L4			DQ1L	
B2	VREFB2N0	IO			34	M3					
B2	VREFB2N0	IO					R1			DQS3L/CQ3L#	DQS3L/CQ3L#
B2	VREFB2N0	IO	DIFFIO_L10p				P2			DQ1L	
B2	VREFB2N0	IO	DIFFIO_L10n				P1			DM1L/BWS#1L	
B2	VREFB2N0	VCCA1			35	R1	L5				
B2	VREFB2N0	GNDA1			36	P1	M5				
B2	VREFB2N0	VCCD_PLL1			37	P2	N4				
B3	VREFB3N0	IO	DIFFIO_B1p		38	R2	N3				
B3	VREFB3N0	IO	DIFFIO_B1n		39	R3	P3			DM3B/BWS#3B	DM5B1/BWS#5B1
B3	VREFB3N0	IO	DIFFIO_B2p			P3	R3			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B2n				T3				
B3	VREFB3N0	VCCIO3			40						
B3	VREFB3N0	GND			41						
B3	VREFB3N0	IO			42	R4	T2	DQS1B/CQ1B#, DPCLK2	DQS1B/CQ1B#, DPCLK2	DQS1B/CQ1B#, DPCLK2	DQS1B/CQ1B#, DPCLK2
B3	VREFB3N0	IO	PLL1_CLKOUTp		43	P5	R4				
B3	VREFB3N0	IO	PLL1_CLKOUTn		44	R5	T4				
B3	VREFB3N0	VCCINT			45						
B3	VREFB3N0	IO	DIFFIO_B4p				N5			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B4n				N6			DQ3B	DQ5B
B3	VREFB3N0	IO				P6	M6			DQ3B	DQ5B
B3	VREFB3N0	IO	VREFB3N0		46	N5	P6				
B3	VREFB3N0	VCCIO3			47						
B3	VREFB3N0	IO	DIFFIO_B5p				M7			DQS3B/CQ3B#	DQS3B/CQ3B#
B3	VREFB3N0	GND			48						
B3	VREFB3N0	IO	DIFFIO_B5n				K8				
B3	VREFB3N0	IO	DIFFIO_B6p				R5			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B6n				T5				
B3	VREFB3N0	IO	DIFFIO_B7p				R6			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B7n				T6				
B3	VREFB3N0	IO					L7			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B8p				R7			DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B8n				T7			DQS5B/CQ5B#	DQS5B/CQ5B#
B3	VREFB3N0	IO	DIFFIO_B9p		49	R6	L8	DQ1B	DQ1B	DQ3B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B9n		50	R7	M8	DQ1B	DQ1B	DM5B/BWS#5B	DM5B0/BWS#5B0
B3	VREFB3N0	IO	DIFFIO_B10p		51	P7	N8	DQ1B	DQ1B	DQ5B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B10n				P8			DQ5B	DQ5B
B3	VREFB3N0	IO	DIFFIO_B11p		52	N6	R8				
B3	VREFB3N0	IO	DIFFIO_B11n		53	N7	T8				
B4	VREFB4N0	IO	DIFFIO_B12p		54	P8	R9				
B4	VREFB4N0	IO	DIFFIO_B12n		55	R8	T9				
B4	VREFB4N0	IO	DIFFIO_B13p				K9				
B4	VREFB4N0	IO	DIFFIO_B13n				L9				



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B4	VREFB4N0	IO	DIFFIO_B14p				M9				
B4	VREFB4N0	VCCIO4			56						
B4	VREFB4N0	IO	DIFFIO_B14n				N9			DQ5B	DQ5B
B4	VREFB4N0	GND			57						
B4	VREFB4N0	IO	DIFFIO_B15p		58	R9	R10	DQ1B	DQ1B	DQ5B	DQ5B
B4	VREFB4N0	IO	DIFFIO_B15n				T10			DQS4B/CQ5B	DQS4B/CQ5B
B4	VREFB4N0	IO	DIFFIO_B16p		59	N8	R11	DQ1B	DQ1B	DQ5B	DQ5B
B4	VREFB4N0	IO	DIFFIO_B16n		60	P9	T11	DQ1B	DQ1B		
B4	VREFB4N0	VCCINT			61						
B4	VREFB4N0	IO	DIFFIO_B17p				R12			DQ5B	DQ5B
B4	VREFB4N0	IO	DIFFIO_B17n				T12			DQ5B	DQ5B
B4	VREFB4N0	VCCIO4			62						
B4	VREFB4N0	IO	DIFFIO_B18p				K10				
B4	VREFB4N0	GND			63						
B4	VREFB4N0	IO	DIFFIO_B18n				L10				
B4	VREFB4N0	IO			64	P10	P9			DQS2B/CQ3B	DQS2B/CQ3B
B4	VREFB4N0	IO	VREFB4N0		65	R10	P11				
B4	VREFB4N0	IO	DIFFIO_B19p			N11	R13				
B4	VREFB4N0	IO	DIFFIO_B19n			P11	T13			DQ5B	DQ5B
B4	VREFB4N0	IO	RUP2		66	N12	M10	DQ1B	DQ1B		
B4	VREFB4N0	IO	RDN2		67	P12	N11	DQ1B	DQ1B		
B4	VREFB4N0	IO	DIFFIO_B20p				T14			DQ5B	DQ5B
B4	VREFB4N0	IO	DIFFIO_B20n		68	R11	T15	DQS0B/CQ1B, DPCLK3	DQS0B/CQ1B, DPCLK3	DQS0B/CQ1B, DPCLK3	DQS0B/CQ1B, DPCLK3
B4	VREFB4N0	IO			69	R12	R14				
B4	VREFB4N0	IO	DIFFIO_B21p		70	N10	P14				
B4	VREFB4N0	IO	DIFFIO_B21n		71		L11				
B4	VREFB4N0	IO	DIFFIO_B22p		72	R14	M11				
B4	VREFB4N0	IO	DIFFIO_B22n			R13	N12				
B5	VREFB5N0	IO			73	P14	N13				
B5	VREFB5N0	IO			74	P15	M12				
B5	VREFB5N0	IO			75	R15	L12				
B5	VREFB5N0	IO					K12				
B5	VREFB5N0	IO	RUP3		76	N15	N14			DM1R/BWS#1R	
B5	VREFB5N0	IO	RDN3		77	M14	P15			DQ1R	
B5	VREFB5N0	IO	DIFFIO_R11n				P16			DQS3R/CQ3R#	DQS3R/CQ3R#
B5	VREFB5N0	IO	DIFFIO_R11p				R16			DQ1R	
B5	VREFB5N0	VCCINT			78						
B5	VREFB5N0	IO					K11				
B5	VREFB5N0	IO	DIFFIO_R10n		79	M15	N16			DQ1R	
B5	VREFB5N0	IO	DIFFIO_R10p			L14	N15			DQ1R	
B5	VREFB5N0	IO	VREFB5N0		80	L15	L14				
B5	VREFB5N0	IO					L13			DQ1R	
B5	VREFB5N0	IO	DIFFIO_R9n				L16			DQ1R	
B5	VREFB5N0	VCCIO5			81						
B5	VREFB5N0	IO	DIFFIO_R9p			K12	L15				



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B5	VREFB5N0	GND			82						
B5	VREFB5N0	IO			83	K13	J11				
B5	VREFB5N0	IO	DIFFIO_R8n		84	J12	K16				DQ1R
B5	VREFB5N0	IO	DIFFIO_R8p		85	K14	K15	DQS1R/CQ1R#, DPCLK4	DQS1R/CQ1R#, DPCLK4	DQS1R/CQ1R#, DPCLK4	DQS1R/CQ1R#, DPCLK4
B5	VREFB5N0	IO	DIFFIO_R7n	DEV_OE	86	K15	J16				
B5	VREFB5N0	IO	DIFFIO_R7p	DEV_CLRn	87	J13	J15				
B5	VREFB5N0	IO	DIFFIO_R6n				J14				DQ1R
B5	VREFB5N0	IO	DIFFIO_R6p				J12				
B5	VREFB5N0	IO					J13				DQ1R
B5	VREFB5N0	CLK7	DIFFCLK_3n		88	J15	M16				
B5	VREFB5N0	CLK6	DIFFCLK_3p		89	J14	M15				
B6	VREFB6N0	CLK5	DIFFCLK_2n		90	H15	E16				
B6	VREFB6N0	CLK4	DIFFCLK_2p		91	H14	E15				
B6	VREFB6N0	CONF_DONE		CONF_DONE	92	H13	H14				
B6	VREFB6N0	VCCIO6			93						
B6	VREFB6N0	MSEL0		MSEL0	94	G13	H13				
B6	VREFB6N0	GND			95						
B6	VREFB6N0	MSEL1		MSEL1	96	G14	H12				
B6	VREFB6N0	MSEL2		MSEL2	97	G15	G12				
B6	VREFB6N0	IO	DIFFIO_R5n				H16				
B6	VREFB6N0	IO	DIFFIO_R5p				H15				
B6	VREFB6N0	IO	DIFFIO_R4n	INIT_DONE	98	F13	G16				
B6	VREFB6N0	IO	DIFFIO_R4p	CRC_ERROR	99	F14	G15				
B6	VREFB6N0	IO			100	F15	F13				
B6	VREFB6N0	IO	DIFFIO_R3n	nCEO	101	E14	F16				
B6	VREFB6N0	VCCINT			102						
B6	VREFB6N0	IO	DIFFIO_R3p	CLKUSR	103	E15	F15				
B6	VREFB6N0	IO			104	D14	B16	DQS0R/CQ1R, DPCLK5	DQS0R/CQ1R, DPCLK5	DQS0R/CQ1R, DPCLK5	DQS0R/CQ1R, DPCLK5
B6	VREFB6N0	IO	VREFB6N0		105	D15	F14				
B6	VREFB6N0	IO	DIFFIO_R2n				D16				
B6	VREFB6N0	IO	DIFFIO_R2p				D15				
B6	VREFB6N0	IO					G11				
B6	VREFB6N0	IO	DIFFIO_R1n		106	C15	C16			DQS2R/CQ3R	DQS2R/CQ3R
B6	VREFB6N0	IO	DIFFIO_R1p				C15				
B6	VREFB6N0	VCCA2			107	A15	F12				
B6	VREFB6N0	GND A2			108	B15	E12				
B6	VREFB6N0	VCCD_PLL2			109	B14	D13				
B7	VREFB7N0	IO	DIFFIO_T21n				C14				
B7	VREFB7N0	IO	DIFFIO_T21p				D14			DQ5T	DQ5T
B7	VREFB7N0	IO	DIFFIO_T20n			B13	D11				
B7	VREFB7N0	IO	DIFFIO_T20p		110	A14	D12	DQS0T/CQ1T, DPCLK6	DQS0T/CQ1T, DPCLK6	DQS0T/CQ1T, DPCLK6	DQS0T/CQ1T, DPCLK6
B7	VREFB7N0	IO	DIFFIO_T19n				A13				
B7	VREFB7N0	IO	DIFFIO_T19p		111	A13	B13			DQ5T	DQ5T



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B7	VREFB7N0	IO	PLL2_CLKOUTn		112	B12	A14				
B7	VREFB7N0	IO	PLL2_CLKOUTp		113	A12	B14				
B7	VREFB7N0	IO	RUP4		114	B11	E11	DQ1T	DQ1T		
B7	VREFB7N0	IO	RDN4		115	A11	E10	DQ1T	DQ1T		
B7	VREFB7N0	VCCINT			116						
B7	VREFB7N0	IO	DIFFIO_T18n				A12			DQ5T	DQ5T
B7	VREFB7N0	IO	DIFFIO_T18p				B12			DQ5T	DQ5T
B7	VREFB7N0	VCCIO7			117						
B7	VREFB7N0	IO	DIFFIO_T17n				A11			DQ5T	DQ5T
B7	VREFB7N0	GND			118						
B7	VREFB7N0	IO	DIFFIO_T17p				B11			DQ5T	DQ5T
B7	VREFB7N0	IO	VREFB7N0		119	B10	C11				
B7	VREFB7N0	IO	DIFFIO_T16n		120	A10	F10	DQ1T	DQ1T		
B7	VREFB7N0	IO	DIFFIO_T16p		121	C9	F9			DQS2T/CQ3T	DQS2T/CQ3T
B7	VREFB7N0	IO	DIFFIO_T15n				F11				
B7	VREFB7N0	IO	DIFFIO_T15p				A15				
B7	VREFB7N0	IO	DIFFIO_T14n				A10			DQ5T	DQ5T
B7	VREFB7N0	VCCIO7			122						
B7	VREFB7N0	IO	DIFFIO_T14p				B10			DQ5T	DQ5T
B7	VREFB7N0	GND			123						
B7	VREFB7N0	IO	DIFFIO_T13n			D9	C9			DQ5T	DQ5T
B7	VREFB7N0	IO	DIFFIO_T13p		124	D8	D9			DM5T/BWS#5T	DM5T0/BWS#5T0
B7	VREFB7N0	IO			125	A9	E9			DQS4T/CQ5T	DQS4T/CQ5T
B7	VREFB7N0	IO	DIFFIO_T12n		126	B9	A9				
B7	VREFB7N0	IO	DIFFIO_T12p		127	A8	B9				
B8	VREFB8N0	IO	DIFFIO_T11n		128	B8	A8				
B8	VREFB8N0	IO	DIFFIO_T11p		129	A7	B8				
B8	VREFB8N0	VCCIO8			130						
B8	VREFB8N0	IO					C8			DQS5T/CQ5T#	DQS5T/CQ5T#
B8	VREFB8N0	GND			131						
B8	VREFB8N0	IO					D8			DQ3T	DQ5T
B8	VREFB8N0	IO	DIFFIO_T10n	DATA2	132	C7	E8	DQ1T	DQ1T	DQ3T	DQ5T
B8	VREFB8N0	IO	DIFFIO_T10p	DATA3	133	B7	F8	DQ1T	DQ1T		
B8	VREFB8N0	IO	DIFFIO_T9n			B6	A7			DQ3T	DQ5T
B8	VREFB8N0	IO	DIFFIO_T9p	DATA4		A6	B7		DQ1T	DQ3T	DQ5T
B8	VREFB8N0	VCCINT			134						
B8	VREFB8N0	IO	DIFFIO_T8n		135		F6	DQ1T			
B8	VREFB8N0	IO	DIFFIO_T8p				F7				
B8	VREFB8N0	IO	VREFB8N0		136	C6	C6				
B8	VREFB8N0	IO	DIFFIO_T7n				A6			DQS3T/CQ3T#	DQS3T/CQ3T#
B8	VREFB8N0	IO	DIFFIO_T7p				B6			DQ3T	DQ5T
B8	VREFB8N0	IO		DATA5	137	A5	E7	DQ1T	DQ1T	DQ3T	DQ5T
B8	VREFB8N0	IO		DATA6	138	B4	E6			DQ3T	DQ5T
B8	VREFB8N0	IO	DIFFIO_T6n	DATA7		A4	A5			DQ3T	DQ5T
B8	VREFB8N0	VCCIO8			139						
B8	VREFB8N0	GND			140						



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B8	VREFB8N0	IO	DIFFIO_T5n				A2				
B8	VREFB8N0	IO	DIFFIO_T5p		141	C4	B5			DQ3T	DQ5T
B8	VREFB8N0	IO	DIFFIO_T4n				A4			DM3T/BWS#3T	DM5T1/BWS#5T1
B8	VREFB8N0	IO	DIFFIO_T4p				B4				
B8	VREFB8N0	IO	DIFFIO_T3n				D5				
B8	VREFB8N0	IO	DIFFIO_T3p				D6				
B8	VREFB8N0	IO	DIFFIO_T2n				A3				
B8	VREFB8N0	IO	DIFFIO_T2p		142	A3	B3	DQS1T/CQ1T#, DPCLK7	DQS1T/CQ1T#, DPCLK7	DQS1T/CQ1T#, DPCLK7	DQS1T/CQ1T#, DPCLK7
B8	VREFB8N0	IO	DIFFIO_T1n		143	A2	C3	DQ1T	DQ1T		
B8	VREFB8N0	IO	DIFFIO_T1p		144	B3	D3	DM1T	DM1T		
		VCCINT				D3	G6				
		VCCINT				D6	G7				
		VCCINT				N2	G8				
		VCCINT				D10	G9				
		VCCINT				F12	G10				
		VCCINT				H12	H6				
		VCCINT				M8	H11				
		VCCINT				M11	K7				
		VCCIO1				F4	E3				
		VCCIO1					G3				
		VCCIO2				J4	K3				
		VCCIO2					M3				
		VCCIO3				M5	P4				
		VCCIO3				M6	P7				
		VCCIO3					T1				
		VCCIO4				M9	P10				
		VCCIO4				N9	P13				
		VCCIO4					T16				
		VCCIO5				L13	K14				
		VCCIO5					M14				
		VCCIO6				D13	E14				
		VCCIO6					G14				
		VCCIO7				C10	A16				
		VCCIO7				C11	C10				
		VCCIO7					C13				
		VCCIO8				B5	A1				
		VCCIO8				C5	C4				
		VCCIO8					C7				
		GND				E3	H7				
		GND				G12	H8				
		GND				D7	H9				
		GND				N14	H10				
		GND				M7	J7				
		GND				N1	J8				
		GND				P13	J9				

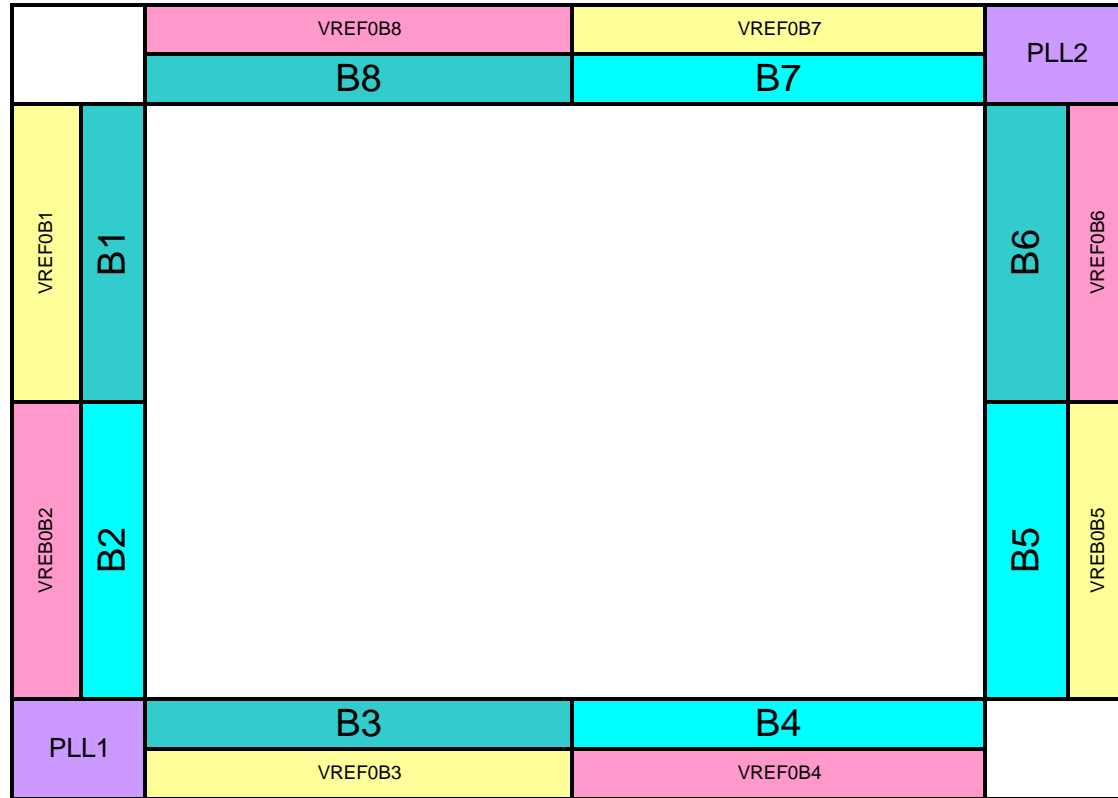


**Pin Information for the Cyclone® III EP3C10 Device**  
**Version 1.4**  
**Notes (1), (2)**

Bank Number	VREFB Group	Pin Name/ Function	Optional Function(s)	Configuration Function	E144 (3)	M164	F256/ U256	DQS for X8/X9 in E144	DQS for X8/X9 in M164	DQS for X8/X9 in F256/U256	DQS for X16/X18 in F256/U256
		GND				P4	J10				
		GND				K4	B2				
		GND				N4	B15				
		GND				G4	C5				
		GND				D5	C12				
		GND				C12	D7				
		GND				D11	D10				
		GND				C14	E4				
		GND				M13	E13				
		GND				M10	G4				
		GND				C2	G13				
		GND				C8	K4				
		GND				E13	K13				
		GND					M4				
		GND					M13				
		GND					N7				
		GND					N10				
		GND					P5				
		GND					P12				
		GND					R2				
		GND					R15				

**Notes:**

- (1) If the p pin or n pin is not available for the package, this means the particular differential pair is not supported.
- (2) DQS pins that do not have the associated DQ pins are not supported.
- (3) The E144 package has an exposed pad at the bottom of the package. This exposed pad is a ground pad that must be connected to the ground plane on your PCB. This exposed pad is used for electrical connectivity, and not for thermal purposes.



**Notes:**

- (1) This is a top view of the silicon die.
- (2) This is only a pictorial representation to get an idea of placement on the device.  
Refer to the pin list and the Quartus® II software for exact locations.





Pin Information for the Cyclone® III EP3C10 Device  
Version 1.4

Version Number	Changes Made	Date
1.0	Initial release.	5/24/2007
1.1	Added support for M164 package.	11/23/2007
1.2	<ul style="list-style-type: none"><li>- Updated pin function for CRC_ERROR pin.</li><li>- Updated DQ/DQS support for UBGA package.</li><li>- Updated pin function for PLL[1..4]_CLKOUT[p,n] pin.</li><li>- Remove RDY from Pin Definitions worksheet.</li><li>- Incorporated pin connection guideline into Pin Definitions worksheet.</li><li>- Incorporated VCCA and VCCD Decoupling recommendations.</li></ul>	5/9/2008
1.3	<ul style="list-style-type: none"><li>- Removed Pin Connection Guideline from Pin Definitions worksheet.</li><li>- Removed VCCA and VCCD Decoupling recommendations.</li><li>- Removed PKG notes from Pin List Worksheet.</li><li>- Updated pin function for DCLK pin.</li></ul>	10/7/2009
1.4	Removed Pin Definitions table.	10/10/2013