

## Logic Signal Connections: 256 ftBGA

LFXP2-5				
Ball Number	Ball Function	Bank	Dual Function	Differential
VCCIO7	VCCIO7	7		
D3	PL2A	7	VREF1_7	T
E4	PL2B	7	VREF2_7	C
C1	PL3A	7		T (LVDS)*
D1	PL3B	7		C (LVDS)*
D2	PL4A	7		T
GND	GNDIO7	7		
E1	PL4B	7		C
VCCIO7	VCCIO7	7		
F2	PL5A	7		T (LVDS)*
G2	PL6A	7	PROGRAMN	T
F1	PL5B	7		C (LVDS)*
G4	PL6B	7	DONE	C
G1	PL7A	7	CFG1	T (LVDS)*
H1	PL7B	7		C (LVDS)*
F3	PL8A	7	CSSPISN	T
GND	GNDIO7	7		
G3	PL8B	7	CSSPIN	C
VCCIO7	VCCIO7	7		
H2	PL9A	7	LDQS9	T (LVDS)*
H6	PL10A	7	CCLK	T
H3	PL9B	7		C (LVDS)*
J6	PL10B	7	SOSPI	C
H5	PL11A	7	SISPI	T (LVDS)*
K6	PL11B	7	INITN	C (LVDS)*
H4	PL12A	7	PCLKT7_0	T
GND	GNDIO7	7		
J5	PL12B	7	PCLKC7_0	C
L6	TOE	-		
L7	CFG0	-		
VCCIO6	VCCIO6	6		
J2	PL14A	6	PCLKT6_0	T (LVDS)*
J4	PL15A	6		T
J1	PL14B	6	PCLKC6_0	C (LVDS)*
K4	PL15B	6		C
K2	PL16A	6		T (LVDS)*
K1	PL16B	6		C (LVDS)*
L5	PL17A	6		T
GND	GNDIO6	6		
K3	PL17B	6		C
VCCIO6	VCCIO6	6		
L1	PL18A	6	LDQS18	T (LVDS)*
L4	PL19A	6		T
L2	PL18B	6		C (LVDS)*
L3	PL19B	6		C
M1	PL20A	6		T (LVDS)*

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N1	PL20B	6		C (LVDS)*
M4	PL21A	6		T
M5	PL21B	6		C
P1	PL23A	6		T (LVDS)*
N2	PL23B	6		C (LVDS)*
GND	GNDIO6	6		
M6	PL24A	6		T
VCCIO6	VCCIO6	6		
N4	PL24B	6		C
R3	PL25A	6	VREF1_6	T
P3	PL25B	6	VREF2_6	C
GND	GNDIO6	6		
GND	GNDIO5	5		
P4	PB7A	5	VREF1_5	T
T3	PB8A	5		T
N5	PB7B	5	VREF2_5	C
T4	PB8B	5		C
VCCIO5	VCCIO5	5		
L9	PB9A	5		T
GND	GNDIO5	5		
L8	PB9B	5		C
P6	PB11A	5		T
N6	PB11B	5		C
VCCIO5	VCCIO5	5		
R4	PB12A	5		T
GND	GNDIO5	5		
T5	PB12B	5		C
N7	PB13A	5		T
P7	PB13B	5		C
R6	PB14A	5		T
M8	PB15A	5	BDQS15	T
T6	PB14B	5		C
N8	PB15B	5		C
VCCIO5	VCCIO5	5		
R7	PB16A	5		T
GND	GNDIO5	5		
T7	PB16B	5		C
P8	PB17A	5		T
N9	PB17B	5		C
R8	PB18A	5		T
T8	PB19A	5	PCLKT5_0	T
T9	PB18B	5		C
R9	PB19B	5	PCLKC5_0	C
VCCIO5	VCCIO5	5		
T10	PB20A	4	PCLKT4_0	T
GND	GNDIO4	4		

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R10	PB20B	4	PCLKC4_0	C
M9	PB21A	4		T
L10	PB21B	4		C
T11	PB22A	4		T
P10	PB23A	4		T
R11	PB22B	4		C
N10	PB23B	4		C
VCCIO4	VCCIO4	4		
T12	PB24A	4	BDQS24	T
GND	GNDIO4	4		
P11	PB24B	4		C
L11	PB25A	4		T
M12	PB25B	4		C
VCCIO4	VCCIO4	4		
R16	PB26A	4	LRC_GPLLT_IN_A	T
P16	PB26B	4	LRC_GPLLC_IN_A	C
N12	PB27A	4	LRC_GPLLT_FB_A	T
GND	GNDIO4	4		
P14	PB27B	4	LRC_GPLLC_FB_A	C
P13	PB28A	4	VREF1_4	T
M13	PB28B	4	VREF2_4	C
VCCIO4	VCCIO4	4		
GND	GNDIO3	3		
N14	PR24B	3	VREF2_3	C
N13	PR24A	3	VREF1_3	T
L12	PR23B	3		C (LVDS)*
L13	PR23A	3		T (LVDS)*
VCCIO3	VCCIO3	3		
L14	PR21B	3		C
GND	GNDIO3	3		
L15	PR21A	3		T
K13	PR20B	3		C (LVDS)*
K14	PR20A	3		T (LVDS)*
K16	PR19B	3		C
K11	PR18B	3		C (LVDS)*
K15	PR19A	3		T
J11	PR18A	3	RDQS18	T (LVDS)*
VCCIO3	VCCIO3	3		
J12	PR17B	3		C
GND	GNDIO3	3		
J13	PR17A	3		T
J16	PR16B	3		C (LVDS)*
J15	PR16A	3		T (LVDS)*
H13	PR15B	3		C
H16	PR14B	3	PCLKC3_0	C (LVDS)*
J14	PR15A	3		T

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Ball Number	Ball Function	Bank	Dual Function	Differential
H15	PR14A	3	PCLKT3_0	T (LVDS)*
VCCIO3	VCCIO3	3		
G11	TMS	-		
H11	TCK	-		
G13	TDI	-		
H12	TDO	-		
K7	VCCJ	-		
G14	PR12B	2	PCLKC2_0	C
GND	GNDIO2	2		
F12	PR12A	2	PCLKT2_0	T
G16	PR11B	2		C (LVDS)*
G15	PR11A	2		T (LVDS)*
F11	PR10B	2		C
F16	PR9B	2		C (LVDS)*
F13	PR10A	2		T
F15	PR9A	2	RDQS9	T (LVDS)*
VCCIO2	VCCIO2	2		
F14	PR8B	2		C
GND	GNDIO2	2		
E16	PR8A	2		T
E13	PR7B	2		C (LVDS)*
D13	PR7A	2		T (LVDS)*
D16	PR6B	2		C
C16	PR5B	2		C (LVDS)*
D15	PR6A	2		T
C15	PR5A	2		T (LVDS)*
VCCIO2	VCCIO2	2		
F10	PR4B	2		C
GND	GNDIO2	2		
E11	PR4A	2		T
B16	PR3B	2		C (LVDS)*
B15	PR3A	2		T (LVDS)*
B14	PR2B	2	VREF2_2	C
C13	PR2A	2	VREF1_2	T
VCCIO2	VCCIO2	2		
VCCIO1	VCCIO1	1		
A13	PT28B	1	VREF2_1	C
B13	PT28A	1	VREF1_1	T
D11	PT27B	1		C
GND	GNDIO1	1		
C10	PT27A	1		T
A11	PT26A	1		T
B11	PT26B	1		C
VCCIO1	VCCIO1	1		
D10	PT25B	1		C
D9	PT25A	1		T

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Ball Number	Ball Function	Bank	Dual Function	Differential
A10	PT24B	1		C
GND	GNDIO1	1		
B10	PT24A	1	TDQS24	T
VCCIO1	VCCIO1	1		
F9	PT23B	1		C
E9	PT22B	1		C
C9	PT23A	1		T
D8	PT22A	1		T
A9	PT21B	1		C
B9	PT21A	1		T
A8	PT20B	1	PCLKC1_0	C
GND	GNDIO1	1		
B8	PT20A	1	PCLKT1_0	T
VCCIO0	VCCIO0	0		
F8	PT19B	0	PCLKC0_0	C
A7	PT18B	0		C
E8	PT19A	0	PCLKT0_0	T
B7	PT18A	0		T
F7	PT17B	0		C
D7	PT17A	0		T
A6	PT16B	0		C
GND	GNDIO0	0		
B6	PT16A	0		T
VCCIO0	VCCIO0	0		
C7	PT15B	0		C
A5	PT14B	0		C
D6	PT15A	0	TDQS15	T
C6	PT14A	0		T
F6	PT13B	0		C
E6	PT13A	0		T
A4	PT12B	0		C
GND	GNDIO0	0		
B4	PT12A	0		T
VCCIO0	VCCIO0	0		
G6	PT11B	0		C
A3	PT10B	0		C
F5	PT11A	0		T
C4	PT10A	0		T
D4	PT9B	0	ULC_GPLL_C_FB_A	C
GND	GNDIO0	0		
F4	PT9A	0	ULC_GPLL_T_FB_A	T
VCCIO0	VCCIO0	0		
A2	PT8B	0	ULC_GPLL_C_IN_A	C
B3	PT7B	0	VREF2_0	C
B1	PT8A	0	ULC_GPLL_T_IN_A	T
B2	PT7A	0	VREF1_0	T

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Ball Number	Ball Function	Bank	Dual Function	Differential
GND	GNDIO0	0		
A1	GND	-		
A16	GND	-		
B12	GND	-		
B5	GND	-		
C8	GND	-		
E15	GND	-		
E2	GND	-		
H14	GND	-		
H8	GND	-		
H9	GND	-		
J3	GND	-		
J8	GND	-		
J9	GND	-		
M15	GND	-		
M2	GND	-		
P9	GND	-		
R12	GND	-		
R5	GND	-		
T1	GND	-		
T16	GND	-		
G7	VCC	-		
G9	VCC	-		
H7	VCC	-		
J10	VCC	-		
K10	VCC	-		
K8	VCC	-		
G8	VCCAUX	-		
H10	VCCAUX	-		
J7	VCCAUX	-		
K9	VCCAUX	-		
C5	VCCIO0	0		
E7	VCCIO0	0		
C12	VCCIO1	1		
E10	VCCIO1	1		
E14	VCCIO2	2		
G12	VCCIO2	2		
K12	VCCIO3	3		
M14	VCCIO3	3		
M10	VCCIO4	4		
P12	VCCIO4	4		
M7	VCCIO5	5		
P5	VCCIO5	5		
K5	VCCIO6	6		
M3	VCCIO6	6		
E3	VCCIO7	7		

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Ball Number	Ball Function	Bank	Dual Function	Differential
G5	VCCIO7	7		
T15	NC	-		
G10	NC	-		
R1	NC	-		
R2	NC	-		
P15	NC	-		
N3	NC	-		
L16	NC	-		
N15	NC	-		
D12	NC	-		
P2	NC	-		
T2	NC	-		
E5	NC	-		
M16	NC	-		
N16	NC	-		
C14	NC	-		
A14	NC	-		
D5	NC	-		
C11	NC	-		
C3	NC	-		
A12	NC	-		
R15	NC	-		
D14	NC	-		
A15	NC	-		
T13	NC	-		
M11	NC	-		
T14	NC	-		
C2	NC	-		
E12	NC	-		
R13	NC	-		
N11	NC	-		
R14	NC	-		