

Pinout Tables

720						770						C 7 MotherOne							
P in	Net	TypeBank	FP GA	TE0 600	B /T /L	P in	Net	TypeBank	FP GA	TE0 600	B /T /L								
1	VIN	Power input		3.3V	B	1	3.3V	Power input		3.3V	B								
3	VIN	Power input		3.3V	B	3	3.3V	Power input		3.3V	B								
5	VIN	Power input		3.3V	B	5	3.3V	Power input		3.3V	B								
7	NOS EQ	input		3.3V	B	7	3.3V	Power input		3.3V	B								
9	VCC IO35	I/O Supply		3.3V	B	9	3.3V	Power input		3.3V	B								
11	VCC IO35	I/O Supply		3.3V	B	11	3.3V	Power input		3.3V	B								
13	3.3 VIN	Power input		3.3V	B	13	VCCIO34	I/O Supply	34	3.3V	B								
15	3.3 VIN	Power input		3.3V	B	15	VCCIO34	I/O Supply	34	3.3V	B								
17	MIO45	MIO	501B9	PHY_L10	B	17	B34_L3_N	DIFF IO	34	N1 PHY_L10	B			S D Card					
19	MIO44	MIO	501E13	PHY_L100	B	19	B34_L3_P	DIFF IO	34	N2 PHY_L100	B			S D Card					
21	MIO43	MIO	501B11	PHY_L1000	B	21	B34_L15_N	DIFF IO	34	R2 PHY_L1000	B			S D Card					
23	MIO42	MIO	501D8	PHY_DUP	B	23	B34_L15_P	DIFF PIO	34	P2 PHY_DUP	B			S D Card					
25	MIO41	MIO	501C8	PHY_LED_TX	B	25	B34_L16_N	DIFF IO	34	N4 PHY_LED_TX	B			S D Card					
27	MIO40	MIO	501E14	PHY_LED_RX	B	27	B34_L16_P	DIFF PIO	34	M4 PHY_LED_RX	B			S D Card					
29	GND			GND	B	29	GND			GND	B								

59	B35	DIF	35	B20	B	59	B34_	DIFF	34	P5	B								
	L1	FIO					L13	NIO_CC											
	_3_N	_CC																	
61	B35	DIF	35	B19	B	61	B34_	DIFF	34	N5	B								
	L1	FIO					L13	PIO_CC											
	_3_P	_CC																	
63	GND				B	63	GND				B								
65	B35	DIF	35	C20	B	65	B34_	DIFF	34	V9	B								
	L1	FIO					L21	NIO											
	_4_N	_CC																	
67	B35	DIF	35	D20	B	67	B34_	DIFF	34	U9	B								
	L1	FIO					L21	PIO											
	_4_P	_CC																	
69	B35	DIF	35	G16	B	69	B34_	DIFF	34	L5	B								
	_L4	FIO					L6_N	IO											
	_N																		
71	B35	DIF	35	G15	B	71	B34_	DIFF	34	L6	B								
	_L4	FIO					L6_P	IO											
	_P																		
73	GND				B	73	GND				B								
75	B35	DIF	35	C19	SIO_B	75	B14_	DIFF	14	T14	SIO_B								
	L1	FIO			CC		L14	PIO_CC			CC								
	_2_N	_CC																	
77	B35	DIF	35	D18	SUS B	77	B14_	DIFF	14	T15	SUS B								
	L1	FIO			PEND		L14	NIO_CC			PEND								
	_2_P	_CC																	
79	VB	VB			VBAT	79	VBAT	VBAT			VBAT								
	AT	AT						T											
		input						input											
81	B35	DIF	35	F19	VFS B	81	B14_	DIFF	14	V11	VFS B								
	L2	FIO					L21	NIO											
	_0_N	_A																	
		DC																	
83	B35	DIF	35	G19	RFU B	83	B14_	DIFF	14	V10	RFU B								
	L2	FIO			SE		L21	PIO			SE								
	_0_P	_A																	
		DC																	
85	MIO	MIO	500	E6	AW B	85	B14_	DIFF	14	U13	AW B						PMOD		
	15				AKE		L23_	NIO			AKE								
87	MIO	MIO	500	G6	CSO B	87	B14_	DIFF	14	T13	CSO B						PMOD		
	00				_B		L23_	PIO			_B								
89	GND				B	89	GND				B								
91	MIO	MIO	500	C4	CCLK B	91	B14_	IO	14	R10	CCLK B						PMOD		
	09						IO25												
93	MIO	MIO	500	B4	MISO B	93	B14_	DIFF	14	V14	MISO B						PMOD		
	11						L22_	NIO											
95	MIO	MIO	500	G7	MO B	95	B14_	DIFF	14	U14	MO B						PMOD		
	10				SI		L22_	PIO			SI								
97	MIO	MIO	500	A6	MIS B	97	B14_	DIFF	14	V16	MIS B						PMOD		
	13				O3		L16_	NIO			O3								

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1	VCC IO34	I/O Supply	34		VCC IO0	T	1	VCCI O16	I/O Supply	16		VCC IO0	T			VAD J_F MC							
3	VCC IO34	I/O Supply	34		VCC IO0	T	3	VCCI O35	I/O Supply	35		VCC IO0	T			VAD J_F MC							
5	VCC IO33	I/O Supply	33		VCC IO0	T	5	VCCI O35	I/O Supply	35		VCC IO0	T			VCC IO_P MOD							
7	VCC IO13	I/O Supply	13		VCC IO0	T	7	VCCI O15	I/O Supply	15		VCC IO0	T			VAD J_F MC							
9	VCC IO13	I/O Supply	13		VCC IO0	T	9	VCCI O15	I/O Supply	15		VCC IO0	T			VAD J_F MC							
11	B33 _L7 _P	DIF FIO	33	A A22		T	11	B35_ L7_P	DIFF IO_A DC	35	C4		T			PMOD							
13	B33 _L7 _N	DIF FIO	33	A B22		T	13	B35_ L7_N	DIFF IO_A DC	35	B4		T			PMOD							
15	B33 _L8 _P	DIF FIO	33	A A21		T	15	B35_ L8_P	DIFF IO_A DC	35	A4		T			PMOD							
17	B33 _L8 _N	DIF FIO	33	A B21		T	17	B35_ L8_N	DIFF IO_A DC	35	A3		T			PMOD							
19	1.5V	O			1.5V	T	19	B35_ L0	IO	35	F5	1.5V	T										
21	B33 _L1 _P _CC	DIF FIO	33	Y19		T	21	B35_ L3_P	DIFF IO_A DC	35	A6		T			PMOD							
23	B33 _L1 _P _N _CC	DIF FIO	33	A A19		T	23	B35_ L3_N	DIFF IO_A DC	35	A5		T			PMOD							
25	B33 _L1 _P _CC	DIF FIO	33	Y18		T	25	B35_ L2_P	DIFF IO_A DC	35	B7		T			PMOD							
27	B33 _L1 _P _N _CC	DIF FIO	33	A A18		T	27	B35_ L2_N	DIFF IO_A DC	35	B6		T			PMOD							
29	B33 _VR _EF	IO_ VR EF	33	V1 9 /V 15		T	29	GND					T			GND							
31	B33 _L1 _P _CC	DIF FIO	33	A A17		T	31	B15_ L17_P	DIFF PIO	15	K13		T			PMOD							

33	B33_L1_7_N	DIF FIO	33	A B17	T	33	B15_L17_NIO	DIFF	15	J13	T				PMOD			
35	B33_L1_8_P	DIF FIO	33	A A16	T	35	B15_L19_PIO	DIFF	15	J14	T				PMOD			
37	B33_L1_8_N	DIF FIO	33	A B16	T	37	B15_L19_NIO	DIFF	15	H15	T				PMOD			
39	GND				T	39	GND				T							
41	B13_L7_P	DIF FIO	13	A A12	T	41	B15_L15_PIO	DIFF	15	H14	T				FMC			
43	B13_L7_N	DIF FIO	13	A B12	T	43	B15_L15_NIO	DIFF	15	G14	T				FMC			
45	B13_L8_P	DIF FIO	13	A A11	T	45	B15_L1_P	DIFF IO_A DC	15	D14	T				FMC			
47	B13_L8_N	DIF FIO	13	A B11	T	47	B15_L1_N	DIFF IO_A DC	15	C14	T				FMC			
49	GND				T	49	GND				T							
51	B13_L1_1_P_CC	DIF FIO	13	A A9	T	51	B15_L14_PIO_CC	DIFF	15	F15	T				FMC			
53	B13_L1_1_N_CC	DIF FIO	13	A A8	T	53	B15_L14_NIO_CC	DIFF	15	F16	T				FMC			
55	B13_L9_P	DIF FIO	13	A B10	T	55	B15_L20_PIO	DIFF	15	C16	T				FMC			
57	B13_L9_N	DIF FIO	13	A B9	T	57	B15_L20_NIO	DIFF	15	C17	T				FMC			
59	GND				T	59	GND				T							
61	B13_L2_0_P	DIF FIO	13	T4	T	61	B15_L4_P	DIFF IO	15	B11	T				FMC			
63	B13_L2_0_N	DIF FIO	13	U4	T	63	B15_L4_N	DIFF IO	15	A11	T				FMC			
65	B13_L1_7_P	DIF FIO	13	A B7	T	65	B15_L6_P	DIFF IO	15	D12	T				FMC			
67	B13_L1_7_N	DIF FIO	13	A B6	T	67	B15_L6_N	DIFF IO	15	D13	T				FMC			
69	GND				T	69	GND				T							

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12	3.3V	O			3.3V	T	12	3.3V	Power input			3.3V	T						
14	B33_L4_P	DIF FIO	33	W20	SIO	T	14	B16_L6_N	IO	16	D9	SIO	T						
16	B33_L4_N	DIF FIO	33	W21	PFI	T	16	B16_L19_N	IO	16	D10	PFI	T						
18	RESIN	Reset input			MR	T	18	CONFIG				MR	T						
20	GND				GND	T	20	GND				GND	T						
22	B33_L1_3_P	DIF FIO_CC	33	W17		T	22	B16_L14_P	DIFF PIO_CC	16	A10		T				PMOD		
24	B33_L1_3_N	DIF FIO_CC	33	W18		T	24	B16_L14_N	DIFF NIO_CC	16	A9		T				PMOD		
26	B33_L1_4_P	DIF FIO_CC	33	W16		T	26	B16_L12_P	DIFF PIO_CC	16	B8		T				PMOD		
28	B33_L1_4_N	DIF FIO_CC	33	Y16		T	28	B16_L12_N	DIFF NIO_CC	16	A8		T				PMOD		
30	GND					T	30	GND					T						
32	B13_L5_P	DIF FIO	13	U12		T	32	B16_L11_P	DIFF PIO_CC	16	C9		T				FMC		
34	B13_L5_N	DIF FIO	13	U11		T	34	B16_L11_N	DIFF NIO_CC	16	B9		T				FMC		
36	B13_L6_P	DIF FIO	13	U10		T	36	B16_L13_P	DIFF PIO_CC	16	C11		T				FMC		
38	B13_L6_N	DIF FIO	13	U9		T	38	B16_L13_N	DIFF NIO_CC	16	C10		T				FMC		
40	GND					T	40	GND					T						
42	B13_L1_P	DIF FIO	13	V10		T	42	B15_L5_P	DIFF IO_A_DC	15	F13		T				FMC		
44	B13_L1_N	DIF FIO	13	V9		T	44	B15_L5_N	DIFF IO_A_DC	15	F14		T				FMC		
46	B13_L1_2_P	DIF FIO_CC	13	Y9		T	46	B15_L12_P	DIFF PIO_CC	15	D15		T				FMC		

48	B13_L1_2_N	DIF_FIO_CC	13	Y8		T	48	B15_L12_NIO_CC	15	C15		T			FMC				
50	GND					T	50	GND				T							
52	B13_L1_4_P	DIF_FIO_CC	13	A7		T	52	B15_L11_PIO_CC	15	E15		T			FMC				
54	B13_L1_4_N	DIF_FIO_CC	13	A6		T	54	B15_L11_NIO_CC	15	E16		T			FMC				
56	B13_L1_3_P	DIF_FIO_CC	13	Y6		T	56	B15_L13_PIO_CC	15	H16		T			FMC				
58	B13_L1_3_N	DIF_FIO_CC	13	Y5		T	58	B15_L13_NIO_CC	15	G16		T			FMC				
60	GND					T	60	GND				T							
62	B13_L4_P	DIF_FIO	13	V12		T	62	B15_L24_PIO	15	K15		T			FMC				
64	B13_L4_N	DIF_FIO	13	W12		T	64	B15_L24_NIO	15	J15		T			FMC				
66	B13_L3_P	DIF_FIO	13	W11		T	66	B15_L16_PIO	15	E17		T			FMC				
68	B13_L3_N	DIF_FIO	13	W10		T	68	B15_L16_NIO	15	D17		T			FMC				
70	GND					T	70	GND				T							
72	B13_L1_0_P	DIF_FIO	13	Y11		T	72	B15_L21_PIO	15	E18		T			FMC				
74	B13_L1_0_N	DIF_FIO	13	Y10		T	74	B15_L21_NIO	15	D18		T			FMC				
76	B13_L2_P	DIF_FIO	13	V8		T	76	B15_L22_PIO	15	G18		T			FMC				
78	B13_L2_N	DIF_FIO	13	W8		T	78	B15_L22_NIO	15	F18		T			FMC				
80	GND					T	80	GND				T							
82	B13_L2_3_P	DIF_FIO	13	V7		T	82	B15_L18_PIO	15	H17		T			FMC				
84	B13_L2_3_N	DIF_FIO	13	W7		T	84	B15_L18_NIO	15	G17		T			FMC				

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21	B34 _L4 _N	DIF FIO	34	M 17		L	21	MGT _TX2 _N	MGT _TX	115B1		L						
23	GND					L	23	GND				L						
25	B34 _L5 _P	DIF FIO	34	N17		L	25	MGT _TX3 _P	MGT _TX	115A4		L						
27	B34 _L5 _N	DIF FIO	34	N18		L	27	MGT _TX3 _N	MGT _TX	115A3		L						
29	GND					L	29	GND				L						
31	B34 _L1 2_P	DIF FIO _CC	34	L18		L	31	MGT _CL _K0_P	MGT _CLK	115D6		L			FMC			
33	B34 _L1 2_N	DIF FIO _CC	34	L19		L	33	MGT _CL _K0_N	MGT _CLK	115D5		L			FMC			
35	GND					L	35	GND				L						
37	B34 _L8 _P	DIF FIO	34	J21		L	37		DIFF IO_CC			L			FMC			
39	B34 _L8 _N	DIF FIO	34	J22		L	39		DIFF IO_CC			L			FMC			
41	B34 _L9 _P	DIF FIO	34	J20		L	41	GND				L			FMC			
43	B34 _L9 _N	DIF FIO	34	K21		L	43		DIFF IO			L			FMC			
45	GND					L	45		DIFF IO			L						
47	OTG D+	DIF FIO			USB	L	47	GND				L			USB			
49	OTG D-	DIF FIO			USB	L	49		DIFF IO_A DC			L			USB			
51	OTG ID	I			USB	L	51		DIFF IO_A DC			L			USB			
53	VB US_ V_EN	O			USB	L	53	GND				L			USB			
55	USB _VB US	I			USB	L	55		DIFF IO_A DC			L			USB			
57	B34 _L2 2_P	DIF FIO	34	R19		L	57		DIFF IO_A DC			L			FMC			

38	B34 _L2 1_P	DIF FIO	34	T16	L	38		DIFF IO_CC		L		FMC							
40	B34 _L2 1_N	DIF FIO	34	T17	L	40		DIFF IO_CC		L		FMC							
42	B34 _L1 5_P	DIF FIO	34	M 21	L	42	GND			L		FMC							
44	B34 _L1 5_N	DIF FIO	34	M 22	L	44		DIFF IO		L		FMC							
46	GND				L	46		DIFF IO		L									
48	B34 _L1 7_P	DIF FIO	34	R20	L	48	GND			L		FMC							
50	B34 _L1 7_N	DIF FIO	34	R21	L	50		DIFF IO_A DC		L		FMC							
52	B34 _L2 3_P	DIF FIO	34	R18	L	52		DIFF IO_A DC		L		FMC							
54	B34 _L2 3_N	DIF FIO	34	T18	L	54	GND			L		FMC							
56	B34 _VR EF	IO_ VR EF	34	M 16 /P15	L	56		DIFF IO_A DC		L		VRE F_F MC							
58	B34 _L1 4_P	DIF FIO _CC	34	N19	L	58		DIFF IO_A DC		L		FMC							
60	B34 _L1 4_N	DIF FIO _CC	34	N20	L	60	RES ERV ED			L		FMC							