

PROGRAMMING ADAPTER SPECIFICATION

Item: 684801P600-YAM

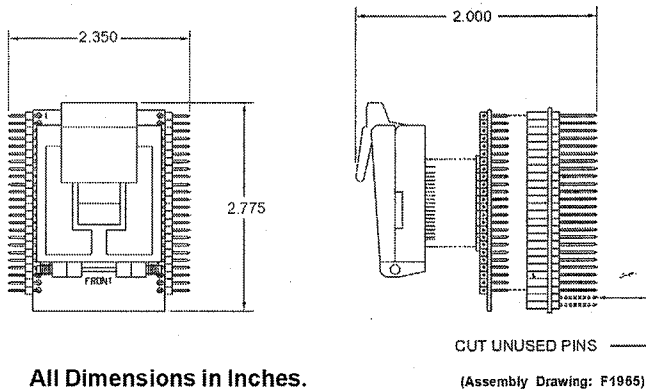
Description: AS-68-48-01P-6YAM

REPLACEMENT SOCKET: S-PCC-00-068-B

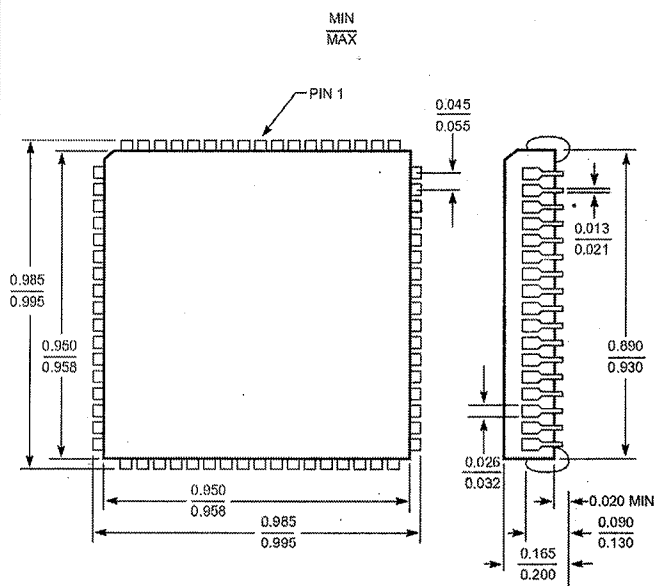
Call Emulation Technology for a replacement socket price and delivery quote.

TYPICAL DIMENSIONS:

Note: DIP base is .600" wide



All Dimensions in Inches.

PACKAGE SPECIFICATIONS:

All Dimensions in Inches.

ETFootprintCode: 68-PCC1

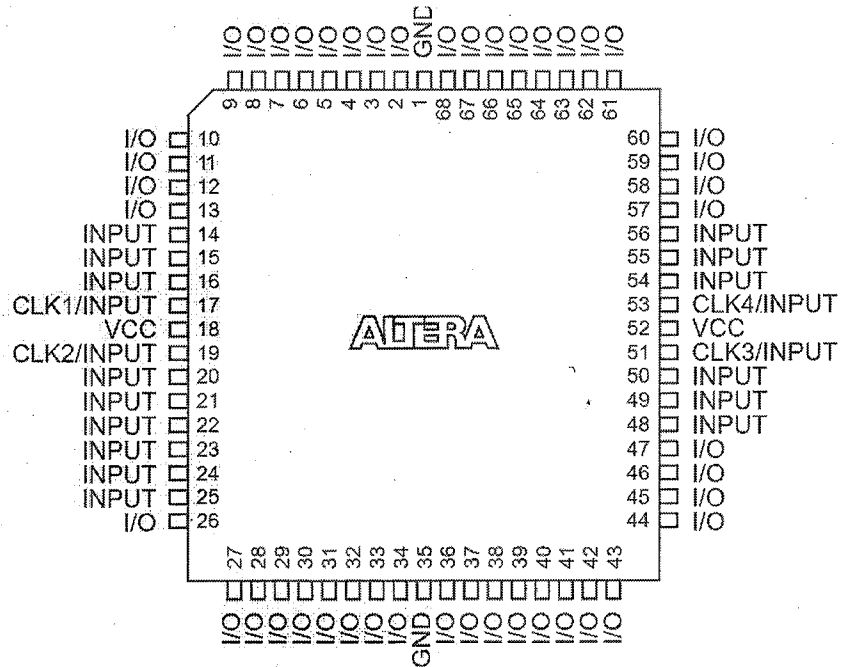
Compatible PLCC devices:
EP1800

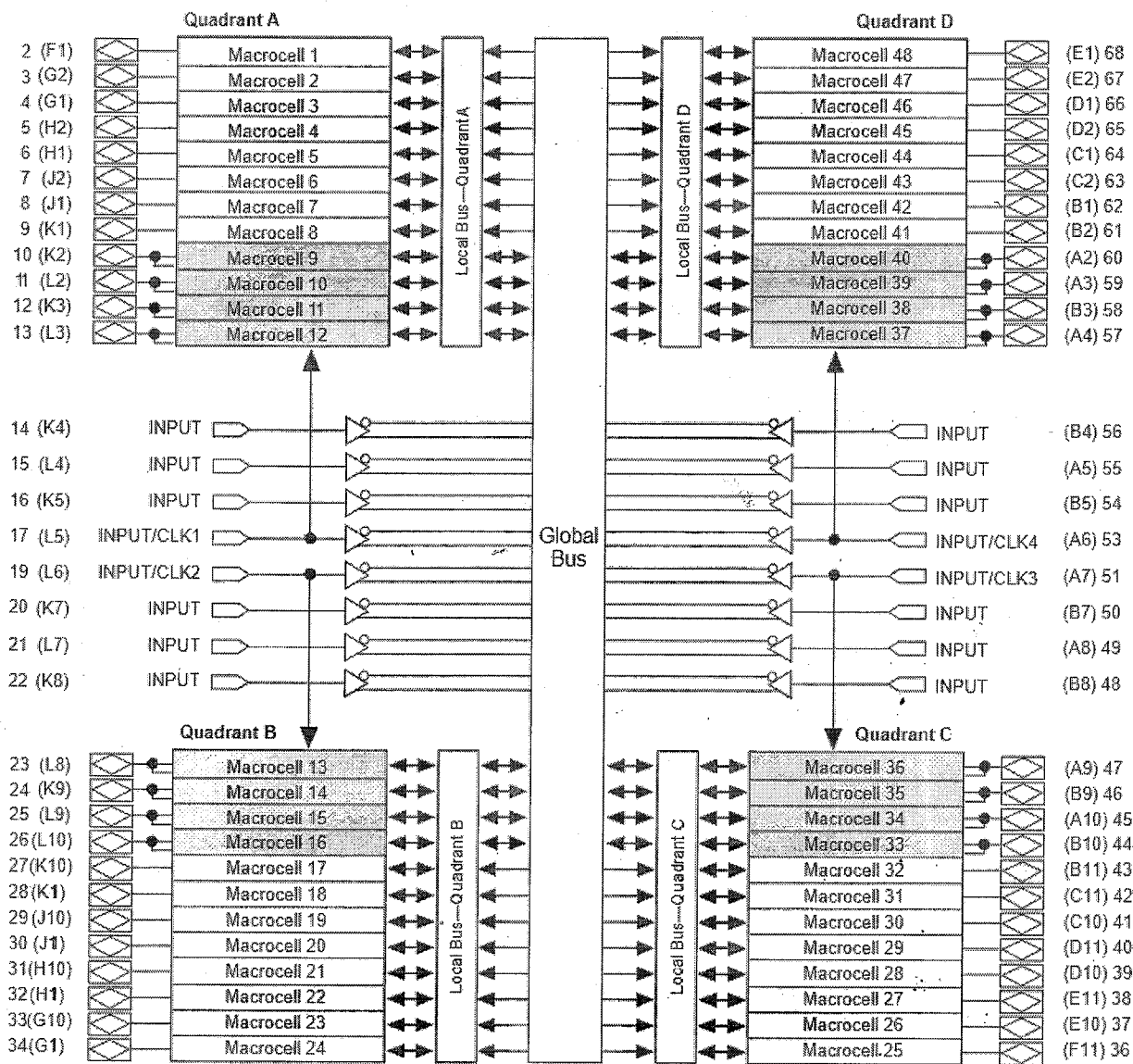
Manufacturers:
Altera

CONNECTION TABLE:

68-Lead PLCC SOCKET	PIN	Names	48-Pin DIP Base	68-Lead PLCC SOCKET	PIN	Names	48-Pin DIP Base	
F2	1	F2	GND	5	F10	35	GND	24
F1	2	#4	D3	6	F11	36	NC	-
G2	3		D2	7	E10	37	NC	-
G1	4		D1	8	E11	38	VCC3	-
H2	5		D0	9	D10	39	NC	-
H1	6		NC	-	D11	40	NC	-
J2	7		NC	-	C10	41	NC	-
J1	8		NC	-	C11	42	NC	-
K1	9		NC	-	B11	43	NC	-
K2	10		AR6	10	B10	44	AR0(2)	25
L2	11		AR5	11	A10	45	AR1(2)	26
K3	12		NC	-	B9	46	AR2(2)	27
L3	13		NC	-	A9	47	AR3(2)	28
K4	14		NC	-	B8	48	AR7(2)	29
L4	15		NC	-	A8	49	AR4(2)	30
K5	16		NC	-	B7	50	AC0	31
L5	17		PGM	12	A7	51	NC	-
K6	18		VCC	14	B6	52	VCC	32
L6	19		VPP	15	A6	53	NC	-
K7	20		AR4	16	B5	54	AC1	35
L7	21		AR7	17	A5	55	AC2	36
K8	22		NEW	13	B4	56	AC3	37
L8	23		AR3	19	A4	57	AC4	38
K9	24		AR2	20	B3	58	AC5	39
L9	25		AR1	21	A3	59	AR5(2)	40
K10	26		AR0	22	A2	60	AR6(2)	41
L10	27		NC	-	B2	61	NC	-
K11	28		NC	-	B1	62	NC	-
J10	29		NC	-	C2	63	NC	-
J11	30		NC	-	C1	64	NC	-
H10	31		NC	-	D2	65	D7	42
H11	32		GND3	-	D1	66	D6	43
G10	33		NC	-	E2	67	D5	44
G11	34		NC	-	E1	68	D4	45

NC = No Connect





	[18]	[52]
VCC	(K6)	(B6)
GND.	(F2)	(F10).
	[1]	[35]

Notes to tables:

- (1) These values are specified in Table 24 on page 781.
- (2) The non-Turbo adder must be added to this parameter when the Turbo Bit option is off.
- (3) Measured with a device programmed as four 12-bit counters.
- (4) Sample-tested only. This parameter is a guideline based on extensive device characterization. This parameter applies for both global and array clocking.
- (5) The f_{MAX} values represent the highest frequency for pipelined data.
- (6) Sample-tested only for an output change of 500 mV.

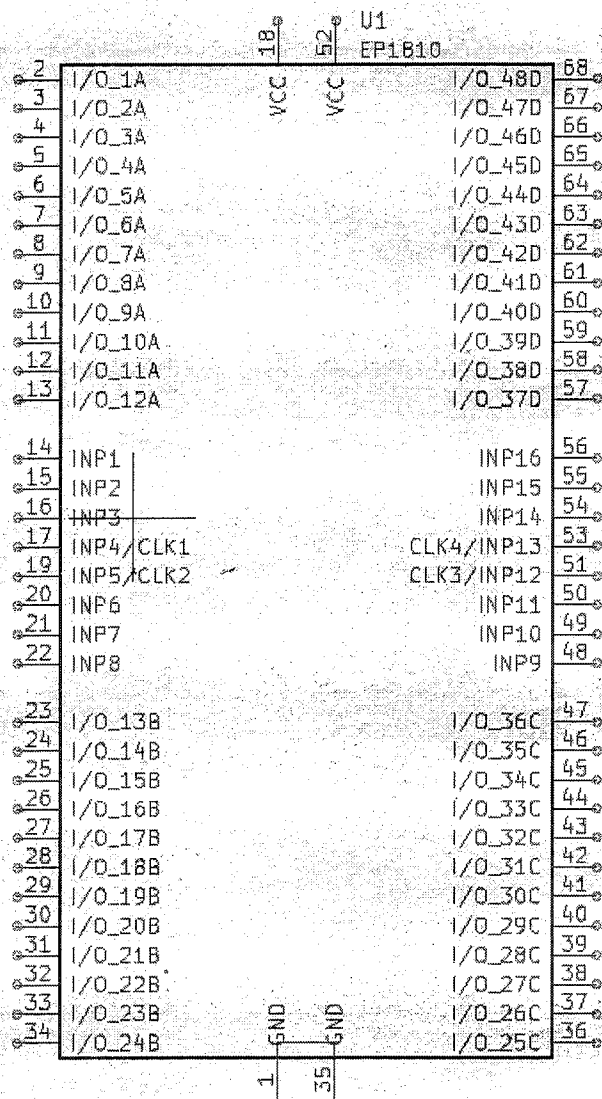
Pin-Out Information

Table 32 provides pin-out information for EP1810 devices in 68-pin PGA packages.

Table 32. EP1810 PGA Pin-Outs							
Pin	Function	Pin	Function	Pin	Function	Pin	Function
A2	I/O	B9	I/O	F10	GND	K4	INPUT
A3	I/O	B10	I/O	F11	I/O	K5	INPUT
A4	I/O	B11	I/O	G1	I/O	K6	VCC
A5	INPUT	C1	I/O	G2	I/O	K7	INPUT
A6	CLK4/INPUT	C2	I/O	G10	I/O	K8	INPUT
A7	CLK3/INPUT	C10	I/O	G11	I/O	K9	I/O
A8	INPUT	C11	I/O	H1	I/O	K10	I/O
A9	I/O	D1	I/O	H2	I/O	K11	I/O
A10	I/O	D2	I/O	H10	I/O	L2	I/O
B1	I/O	D10	I/O	H11	I/O	L3	I/O
B2	I/O	D11	I/O	J1	I/O	L4	INPUT
B3	I/O	E1	I/O	J2	I/O	L5	CLK1/INPUT
B4	INPUT	E2	I/O	J10	I/O	L6	CLK2/INPUT
B5	INPUT	E10	I/O	J11	I/O	L7	INPUT
B6	VCC	E11	I/O	K1	I/O	L8	I/O
B7	INPUT	F1	I/O	K2	I/O	L9	I/O
B8	INPUT	F2	GND	K3	I/O	L10	I/O

40-Pin DIP socket	68-Pin PLCC adapter socket
1	26(I/O),44(I/O)
2	25(In),45(I/O)
3	24(In),46(I/O)
4	23(In),47(I/O)
5	20(In),49(I/O)
6	11(I/O),59(I/O)
7	10(I/O),60(I/O)
8	21(I/O),48(I/O)
9	17(CLK1/In)
10	50(In)
11	54(In)
12	55(In)
13	56(In)
14	57(I/O)
15	58(I/O)
16	nc
17	nc
18	nc
19	nc
20	1(GND),35(GND)
21	19(CLK2/In)
22	nc
23	nc
24	nc
25	nc
26	nc
27	nc
28	nc
29	nc
30	nc
31	nc
32	18(VCC),52(VCC)
33	5(I/O)
34	4(I/O)
35	3(I/O)
36	2(I/O)
37	68(I/O)
38	67(I/O)
39	66(I/O)
40	65(I/O)

These pins on PLCC socket are not connected:
6-9,12-16,22,27-34,36-43,51,53



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	40	53	56	54	52	50	48	46	44	
61	62	59	57	56	53	51	49	47	45	43
63	64								42	41
65	66								40	39
67	68								38	37
1	2								36	35
3	4								34	33
5	6								32	31
7	8								30	29
9	11	13	15	17	19	21	23	25	23	27
	10	12	14	16	18	20	22	24	26	

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PLC640/THE/1.275

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SDP-1800-68 Altera/Intel/TI EP1800/10/30 (68 PINS PLCC)

Altera/Intel/TI EP1800/10/30 PIN/Signal 68-Lead PLCC 40-Pin DIP			PIN/Signal 68-Lead PLCC 40-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
GND	1	20	I/O	68	25
I/O	2	24	I/O	67	26
I/O	3	23	I/O	66	27
I/O	4	22	I/O	65	28
I/O	5	21	I/O	64	NC
I/O	6	NC	I/O	63	NC
I/O	7	NC	I/O	62	NC
I/O	8	NC	I/O	61	NC
I/O	9	NC	I/O	60	31
I/O	10	31	I/O	59	10
I/O	11	10	I/O	58	18
I/O	12	NC	I/O	57	17
I/O	13	NC	INPUT	56	16
INPUT	14	NC	INPUT	55	15
INPUT	15	NC	INPUT	54	14
INPUT	16	NC	CLK4	53	NC
CLK1	17	4	VCC	52	34
VCC	18	34	CLK3	51	NC
CLK2	19	1	INPUT	50	13
INPUT	20	9	INPUT	49	9
INPUT	21	32	INPUT	48	32
INPUT	22	2	I/O	47	30
I/O	23	30	I/O	46	29
I/O	24	29	I/O	45	12
I/O	25	12	I/O	44	11
I/O	26	11	I/O	43	NC
I/O	27	NC	I/O	42	NC
I/O	28	NC	I/O	41	NC
I/O	29	NC	I/O	40	NC
I/O	30	NC	I/O	39	NC
I/O	31	NC	I/O	38	NC
I/O	32	NC	I/O	37	NC
I/O	33	NC	I/O	36	NC
I/O	34	NC	GND	35	20