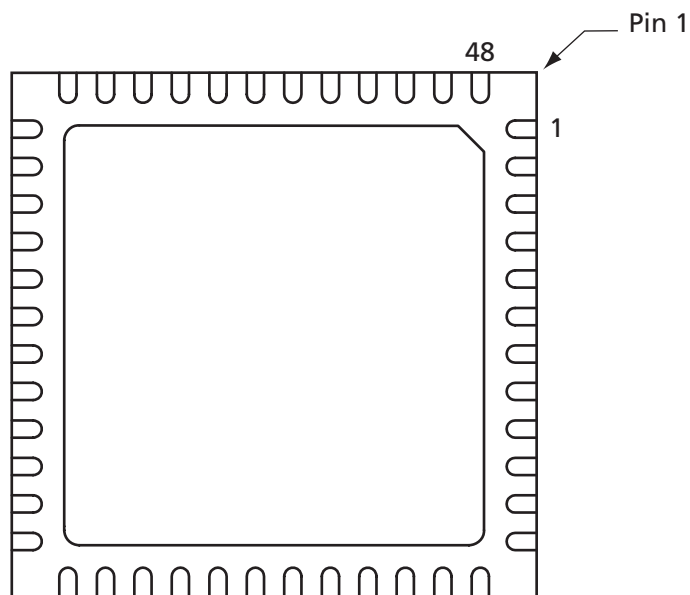




3 – Package Pin Assignments

48-Pin QFN



Notes:

1. This is the bottom view of the package.
2. The die attach paddle center of the package is tied to ground (GND).

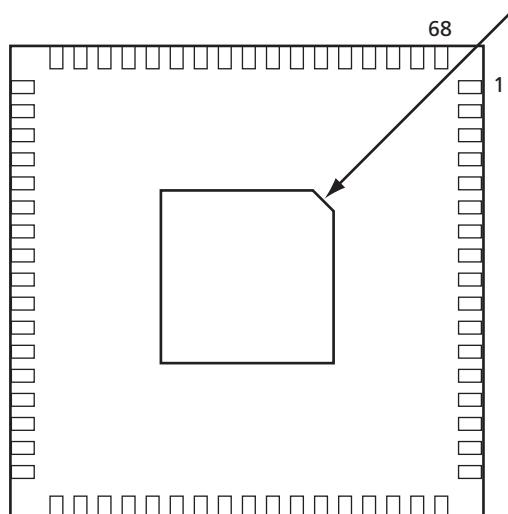
Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

48-Pin QFP	
Pin Number	A3P030 Function
1	IO82RSB1
2	GEC0/IO73RSB1
3	GEA0/IO72RSB1
4	GEB0/IO71RSB1
5	GND
6	V _{CC} B1
7	IO68RSB1
8	IO67RSB1
9	IO66RSB1
10	IO65RSB1
11	IO64RSB1
12	IO62RSB1
13	IO61RSB1
14	IO60RSB1
15	IO57RSB1
16	IO55RSB1
17	IO53RSB1
18	V _{CC}
19	V _{CC} B1
20	IO46RSB1
21	IO42RSB1
22	TCK
23	TDI
24	TMS
25	V _{PUMP}
26	TDO
27	TRST
28	V _{JTAG}
29	IO38RSB0
30	GDB0/IO34RSB0
31	GDA0/IO33RSB0
32	GDC0/IO32RSB0
33	V _{CC} B0
34	GND
35	V _{CC}
36	IO25RSB0

48-Pin QFP	
Pin Number	A3P030 Function
37	IO24RSB0
38	IO22RSB0
39	IO20RSB0
40	IO18RSB0
41	IO16RSB0
42	IO14RSB0
43	IO10RSB0
44	IO08RSB0
45	IO06RSB0
46	IO04RSB0
47	IO02RSB0
48	IO00RSB0

68-Pin QFN



Notes:

1. This is the bottom view of the package.
2. The die attach paddle center of the package is tied to ground (GND).

Note

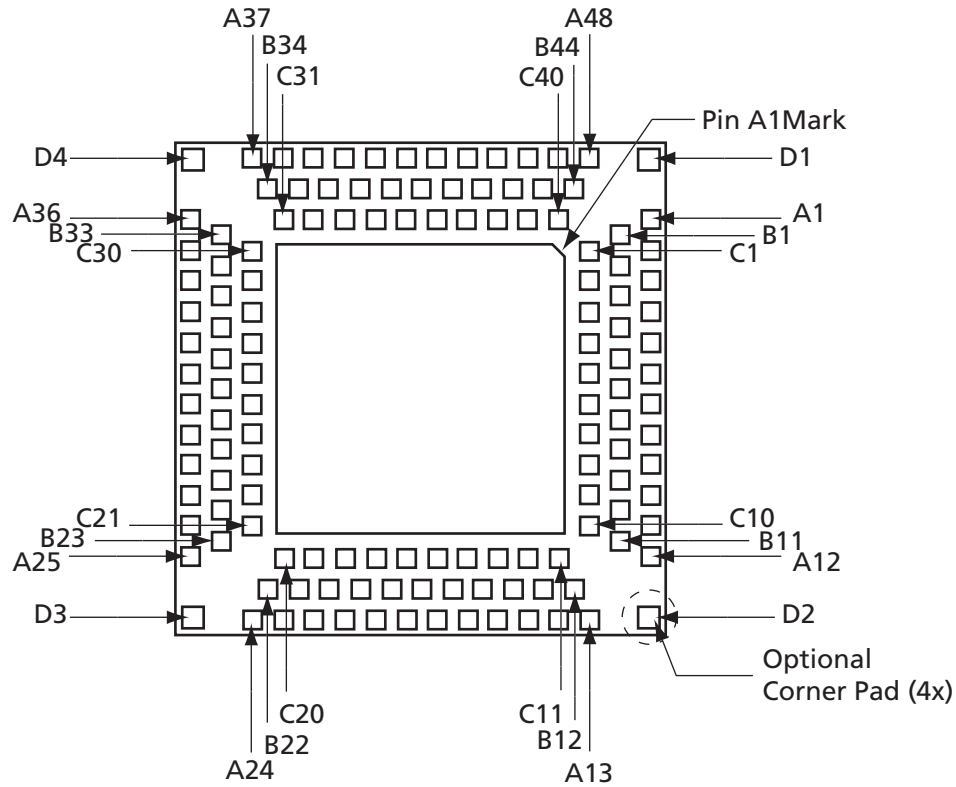
For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

68-Pin QFN		68-Pin QFN	
Pin Number	A3P015 Function	Pin Number	A3P015 Function
1	IO82RSB1	37	TRST
2	IO80RSB1	38	V _{JTAG}
3	IO78RSB1	39	IO40RSB0
4	IO76RSB1	40	IO37RSB0
5	GEC0/IO73RSB1	41	GDB0/IO34RSB0
6	GEA0/IO72RSB1	42	GDA0/IO33RSB0
7	GEB0/IO71RSB1	43	GDC0/IO32RSB0
8	V _{CC}	44	V _{CC} B0
9	GND	45	GND
10	V _{CC} B1	46	V _{CC}
11	IO68RSB1	47	IO31RSB0
12	IO67RSB1	48	IO29RSB0
13	IO66RSB1	49	IO28RSB0
14	IO65RSB1	50	IO27RSB0
15	IO64RSB1	51	IO25RSB0
16	IO63RSB1	52	IO24RSB0
17	IO62RSB1	53	IO22RSB0
18	IO60RSB1	54	IO21RSB0
19	IO58RSB1	55	IO19RSB0
20	IO56RSB1	56	IO17RSB0
21	IO54RSB1	57	IO15RSB0
22	IO52RSB1	58	IO14RSB0
23	IO51RSB1	59	V _{CC} B0
24	V _{CC}	60	GND
25	GND	61	V _{CC}
26	V _{CC} B1	62	IO12RSB0
27	IO50RSB1	63	IO10RSB0
28	IO48RSB1	64	IO08RSB0
29	IO46RSB1	65	IO06RSB0
30	IO44RSB1	66	IO04RSB0
31	IO42RSB1	67	IO02RSB0
32	TCK	68	IO00RSB0
33	TDI		
34	TMS		
35	V _{PUMP}		
36	TDO		

68-Pin QFN	
Pin Number	A3P030 Function
1	IO82RSB1
2	IO80RSB1
3	IO78RSB1
4	IO76RSB1
5	GEC0/IO73RSB1
6	GEA0/IO72RSB1
7	GEB0/IO71RSB1
8	V _{CC}
9	GND
10	V _{CC} B1
11	IO68RSB1
12	IO67RSB1
13	IO66RSB1
14	IO65RSB1
15	IO64RSB1
16	IO63RSB1
17	IO62RSB1
18	IO60RSB1
19	IO58RSB1
20	IO56RSB1
21	IO54RSB1
22	IO52RSB1
23	IO51RSB1
24	V _{CC}
25	GND
26	VCCIB1
27	IO50RSB1
28	IO48RSB1
29	IO46RSB1
30	IO44RSB1
31	IO42RSB1
32	TCK
33	TDI
34	TMS
35	V _{PUMP}
36	TDO

68-Pin QFN	
Pin Number	A3P030 Function
37	TRST
38	V _{JTAG}
39	IO40RSB0
40	IO37RSB0
41	GDB0/IO34RSB0
42	GDA0/IO33RSB0
43	GDC0/IO32RSB0
44	V _{CC} B0
45	GND
46	V _{CC}
47	IO31RSB0
48	IO29RSB0
49	IO28RSB0
50	IO27RSB0
51	IO25RSB0
52	IO24RSB0
53	IO22RSB0
54	IO21RSB0
55	IO19RSB0
56	IO17RSB0
57	IO15RSB0
58	IO14RSB0
59	V _{CC} B0
60	GND
61	V _{CC}
62	IO12RSB0
63	IO10RSB0
64	IO08RSB0
65	IO06RSB0
66	IO04RSB0
67	IO02RSB0
68	IO00RSB0

132-Pin QFN



Notes:

1. This is the bottom view of the package.
2. The die attach paddle center of the package is tied to ground (GND).

Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

132-Pin QFN		132-Pin QFN		132-Pin QFN	
Pin Number	A3P030 Function	Pin Number	A3P030 Function	Pin Number	A3P030 Function
A1	IO1RSB1	A37	IO26RSB0	B25	GND
A2	IO81RSB1	A38	IO23RSB0	B26	NC
A3	NC	A39	NC	B27	IO41RSB0
A4	IO80RSB1	A40	IO22RSB0	B28	GND
A5	GEC0/IO77RSB1	A41	IO20RSB0	B29	GDA0/IO37RSB0
A6	NC	A42	IO18RSB0	B30	NC
A7	GEB0/IO75RSB1	A43	V _{CC}	B31	GND
A8	IO73RSB1	A44	IO15RSB0	B32	IO33RSB0
A9	NC	A45	IO12RSB0	B33	IO30RSB0
A10	V _{CC}	A46	IO10RSB0	B34	IO27RSB0
A11	IO71RSB1	A47	IO09RSB0	B35	IO24RSB0
A12	IO68RSB1	A48	IO06RSB0	B36	GND
A13	IO63RSB1	B1	IO02RSB1	B37	IO21RSB0
A14	IO60RSB1	B2	IO82RSB1	B38	IO19RSB0
A15	NC	B3	GND	B39	GND
A16	IO59RSB1	B4	IO79RSB1	B40	IO16RSB0
A17	IO57RSB1	B5	NC	B41	IO13RSB0
A18	V _{CC}	B6	GND	B42	GND
A19	IO54RSB1	B7	IO74RSB1	B43	IO08RSB0
A20	IO52RSB1	B8	NC	B44	IO05RSB0
A21	IO49RSB1	B9	GND	C1	IO03RSB1
A22	IO48RSB1	B10	IO70RSB1	C2	IO00RSB1
A23	IO47RSB1	B11	IO67RSB1	C3	NC
A24	TDI	B12	IO64RSB1	C4	IO78RSB1
A25	TRST	B13	IO61RSB1	C5	GEA0/IO76RSB1
A26	IO44RSB0	B14	GND	C6	NC
A27	NC	B15	IO58RSB1	C7	NC
A28	IO43RSB0	B16	IO56RSB1	C8	V _{CC} B1
A29	IO42RSB0	B17	GND	C9	IO69RSB1
A30	IO40RSB0	B18	IO53RSB1	C10	IO66RSB1
A31	IO39RSB0	B19	IO50RSB1	C11	IO65RSB1
A32	GDC0/IO36RSB0	B20	GND	C12	IO62RSB1
A33	NC	B21	IO46RSB1	C13	NC
A34	V _{CC}	B22	TMS	C14	NC
A35	IO34RSB0	B23	TDO	C15	IO55RSB1
A36	IO31RSB0	B24	IO45RSB0	C16	V _{CC} B1

132-Pin QFN	
Pin Number	A3P030 Function
C17	IO51RSB1
C18	NC
C19	TCK
C20	NC
C21	V _{PUMP}
C22	V _{JTAG}
C23	NC
C24	NC
C25	NC
C26	GDB0/IO38RSB0
C27	NC
C28	V _{CCIB0}
C29	IO32RSB0
C30	IO29RSB0
C31	IO28RSB0
C32	IO25RSB0
C33	NC
C34	NC
C35	V _{CCIB0}
C36	IO17RSB0
C37	IO14RSB0
C38	IO11RSB0
C39	IO07RSB0
C40	IO04RSB0
D1	GND
D2	GND
D3	GND
D4	GND

132-Pin QFN	
Pin Number	A3P060 Function
A1	GAB2/IO00RSB1
A2	IO93RSB1
A3	V _{CC} B1
A4	GFC1/IO89RSB1
A5	GFB0/IO86RSB1
A6	V _{CC} PLF
A7	GFA1/IO84RSB1
A8	GFC2/IO81RSB1
A9	IO78RSB1
A10	V _{CC}
A11	GEB1/IO75RSB1
A12	GEA0/IO72RSB1
A13	GEC2/IO69RSB1
A14	IO65RSB1
A15	V _{CC}
A16	IO64RSB1
A17	IO63RSB1
A18	IO62RSB1
A19	IO61RSB1
A20	IO58RSB1
A21	GDB2/IO55RSB1
A22	NC
A23	GDA2/IO54RSB1
A24	TDI
A25	TRST
A26	GDC1/IO48RSB0
A27	V _{CC}
A28	IO47RSB0
A29	GCC2/IO46RSB0
A30	GCA2/IO44RSB0
A31	GCA0/IO43RSB0
A32	GCB1/IO40RSB0
A33	IO36RSB0
A34	V _{CC}
A35	IO31RSB0
A36	GBA2/IO28RSB0

132-Pin QFN	
Pin Number	A3P060 Function
A37	GBB1/IO25RSB0
A38	GBC0/IO22RSB0
A39	V _{CC} B0
A40	IO21RSB0
A41	IO18RSB0
A42	IO15RSB0
A43	IO14RSB0
A44	IO11RSB0
A45	GAB1/IO08RSB0
A46	NC
A47	GAB0/IO07RSB0
A48	IO04RSB0
B1	IO01RSB1
B2	GAC2/IO94RSB1
B3	GND
B4	GFC0/IO88RSB1
B5	V _{COMPLF}
B6	GND
B7	GFB2/IO82RSB1
B8	IO79RSB1
B9	GND
B10	GEB0/IO74RSB1
B11	VMV1
B12	GEB2/IO70RSB1
B13	IO67RSB1
B14	GND
B15	NC
B16	NC
B17	GND
B18	IO59RSB1
B19	GDC2/IO56RSB1
B20	GND
B21	GNDQ
B22	TMS
B23	TDO
B24	GDC0/IO49RSB0

132-Pin QFN	
Pin Number	A3P060 Function
B25	GND
B26	NC
B27	GCB2/IO45RSB0
B28	GND
B29	GCB0/IO41RSB0
B30	GCC1/IO38RSB0
B31	GND
B32	GBB2/IO30RSB0
B33	VMV0
B34	GBA0/IO26RSB0
B35	GBC1/IO23RSB0
B36	GND
B37	IO20RSB0
B38	IO17RSB0
B39	GND
B40	IO12RSB0
B41	GAC0/IO09RSB0
B42	GND
B43	GAA1/IO06RSB0
B44	GNDQ
C1	GAA2/IO02RSB1
C2	IO95RSB1
C3	V _{CC}
C4	GFB1/IO87RSB1
C5	GFA0/IO85RSB1
C6	GFA2/IO83RSB1
C7	IO80RSB1
C8	V _{CC} B1
C9	GEA1/IO73RSB1
C10	GNDQ
C11	GEA2/IO71RSB1
C12	IO68RSB1
C13	V _{CC} B1
C14	NC
C15	NC
C16	IO60RSB1

132-Pin QFN	
Pin Number	A3P060 Function
C17	IO57RSB1
C18	NC
C19	TCK
C20	VMV1
C21	V _{PUMP}
C22	V _{JTAG}
C23	V _{CC} I _{B0}
C24	NC
C25	NC
C26	GCA1/IO42RSB0
C27	GCC0/IO39RSB0
C28	V _{CC} I _{B0}
C29	IO29RSB0
C30	GNDQ
C31	GBA1/IO27RSB0
C32	GBB0/IO24RSB0
C33	V _{CC}
C34	IO19RSB0
C35	IO16RSB0
C36	IO13RSB0
C37	GAC1/IO10RSB0
C38	NC
C39	GAA0/IO05RSB0
C40	VMV0
D1	GND
D2	GND
D3	GND
D4	GND

132-Pin QFN	
Pin Number	A3P125 Function
A1	GAB2/IO69RSB1
A2	IO130RSB1
A3	V _{CC} B1
A4	GFC1/IO126RSB1
A5	GFB0/IO123RSB1
A6	V _{CC} PLF
A7	GFA1/IO121RSB1
A8	GFC2/IO118RSB1
A9	IO115RSB1
A10	V _{CC}
A11	GEB1/IO110RSB1
A12	GEA0/IO107RSB1
A13	GEC2/IO104RSB1
A14	IO100RSB1
A15	V _{CC}
A16	IO99RSB1
A17	IO96RSB1
A18	IO94RSB1
A19	IO91RSB1
A20	IO85RSB1
A21	IO79RSB1
A22	V _{CC}
A23	GDB2/IO71RSB1
A24	TDI
A25	TRST
A26	GDC1/IO61RSB0
A27	V _{CC}
A28	IO60RSB0
A29	GCC2/IO59RSB0
A30	GCA2/IO57RSB0
A31	GCA0/IO56RSB0
A32	GCB1/IO53RSB0
A33	IO49RSB0
A34	V _{CC}
A35	IO44RSB0
A36	GBA2/IO41RSB0

132-Pin QFN	
Pin Number	A3P125 Function
A37	GBB1/IO38RSB0
A38	GBC0/IO35RSB0
A39	V _{CC} B0
A40	IO28RSB0
A41	IO22RSB0
A42	IO18RSB0
A43	IO14RSB0
A44	IO11RSB0
A45	IO07RSB0
A46	V _{CC}
A47	GAC1/IO05RSB0
A48	GAB0/IO02RSB0
B1	IO68RSB1
B2	GAC2/IO131RSB1
B3	GND
B4	GFC0/IO125RSB1
B5	V _{COMPLF}
B6	GND
B7	GFB2/IO119RSB1
B8	IO116RSB1
B9	GND
B10	GEB0/IO109RSB1
B11	VMV1
B12	GEB2/IO105RSB1
B13	IO101RSB1
B14	GND
B15	IO98RSB1
B16	IO95RSB1
B17	GND
B18	IO87RSB1
B19	IO81RSB1
B20	GND
B21	GNDQ
B22	TMS
B23	TDO
B24	GDC0/IO62RSB0

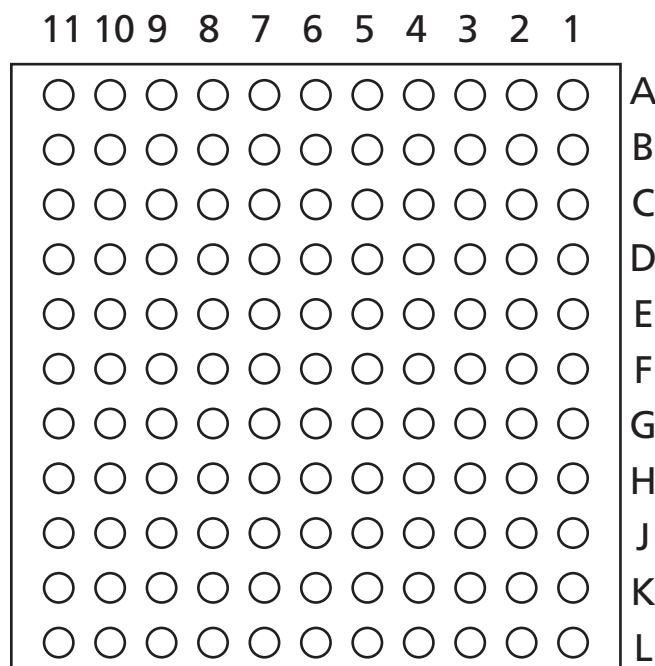
132-Pin QFN	
Pin Number	A3P125 Function
B25	GND
B26	NC
B27	GCB2/IO58RSB0
B28	GND
B29	GCB0/IO54RSB0
B30	GCC1/IO51RSB0
B31	GND
B32	GBB2/IO43RSB0
B33	VMV0
B34	GBA0/IO39RSB0
B35	GBC1/IO36RSB0
B36	GND
B37	IO26RSB0
B38	IO21RSB0
B39	GND
B40	IO13RSB0
B41	IO08RSB0
B42	GND
B43	GAC0/IO04RSB0
B44	GNDQ
C1	GAA2/IO67RSB1
C2	IO132RSB1
C3	V _{CC}
C4	GFB1/IO124RSB1
C5	GFA0/IO122RSB1
C6	GFA2/IO120RSB1
C7	IO117RSB1
C8	V _{CC} B1
C9	GEA1/IO108RSB1
C10	GNDQ
C11	GEA2/IO106RSB1
C12	IO103RSB1
C13	V _{CC} B1
C14	IO97RSB1
C15	IO93RSB1
C16	IO89RSB1

132-Pin QFN	
Pin Number	A3P125 Function
C17	IO83RSB1
C18	V _{CC} B1
C19	TCK
C20	VMV1
C21	V _{PUMP}
C22	V _{JTAG}
C23	V _{CC} B0
C24	NC
C25	NC
C26	GCA1/IO55RSB0
C27	GCC0/IO52RSB0
C28	V _{CC} B0
C29	IO42RSB0
C30	GNDQ
C31	GBA1/IO40RSB0
C32	GBB0/IO37RSB0
C33	V _{CC}
C34	IO24RSB0
C35	IO19RSB0
C36	IO16RSB0
C37	IO10RSB0
C38	V _{CC} B0
C39	GAB1/IO03RSB0
C40	VMV0
D1	GND
D2	GND
D3	GND
D4	GND

132-Pin QFN		132-Pin QFN		132-Pin QFN	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
A1	GAB2/IO117UPB3	A37	GBB1/IO38RSB0	B25	GND
A2	IO117VPB3	A38	GBC0/IO35RSB0	B26	IO54PDB1
A3	V _{CC} B3	A39	V _{CC} B0	B27	GCB2/IO52PDB1
A4	GFC1/IO110PDB3	A40	IO28RSB0	B28	GND
A5	GFB0/IO109NPB3	A41	IO22RSB0	B29	GCB0/IO49NDB1
A6	V _{CC} PLF	A42	IO18RSB0	B30	GCC1/IO48PDB1
A7	GFA1/IO108PPB3	A43	IO14RSB0	B31	GND
A8	GFC2/IO105PPB3	A44	IO11RSB0	B32	GBB2/IO42PDB1
A9	IO103NDB3	A45	IO07RSB0	B33	VMV1
A10	V _{CC}	A46	V _{CC}	B34	GBA0/IO39RSB0
A11	GEA1/IO98PPB3	A47	GAC1/IO05RSB0	B35	GBC1/IO36RSB0
A12	GEA0/IO98NPB3	A48	GAB0/IO02RSB0	B36	GND
A13	GEC2/IO95RSB2	B1	IO118VDB3	B37	IO26RSB0
A14	IO91RSB2	B2	GAC2/IO116UDB3	B38	IO21RSB0
A15	V _{CC}	B3	GND	B39	GND
A16	IO90RSB2	B4	GFC0/IO110NDB3	B40	IO13RSB0
A17	IO87RSB2	B5	V _{COMPLF}	B41	IO08RSB0
A18	IO85RSB2	B6	GND	B42	GND
A19	IO82RSB2	B7	GFB2/IO106PSB3	B43	GAC0/IO04RSB0
A20	IO76RSB2	B8	IO103PDB3	B44	GNDQ
A21	IO70RSB2	B9	GND	C1	GAA2/IO118UDB3
A22	V _{CC}	B10	GEB0/IO99NDB3	C2	IO116VDB3
A23	GDB2/IO62RSB2	B11	VMV3	C3	V _{CC}
A24	TDI	B12	GEB2/IO96RSB2	C4	GFB1/IO109PPB3
A25	TRST	B13	IO92RSB2	C5	GFA0/IO108NPB3
A26	GDC1/IO58UDB1	B14	GND	C6	GFA2/IO107PSB3
A27	V _{CC}	B15	IO89RSB2	C7	IO105NPB3
A28	IO54NDB1	B16	IO86RSB2	C8	V _{CC} B3
A29	IO52NDB1	B17	GND	C9	GEB1/IO99PDB3
A30	GCA2/IO51PPB1	B18	IO78RSB2	C10	GNDQ
A31	GCA0/IO50NPB1	B19	IO72RSB2	C11	GEA2/IO97RSB2
A32	GCB1/IO49PDB1	B20	GND	C12	IO94RSB2
A33	IO47NSB1	B21	GNDQ	C13	V _{CC} B2
A34	V _{CC}	B22	TMS	C14	IO88RSB2
A35	IO41NPB1	B23	TDO	C15	IO84RSB2
A36	GBA2/IO41PPB1	B24	GDC0/IO58VDB1	C16	IO80RSB2

132-Pin QFN	
Pin Number	A3P250 Function
C17	IO74RSB2
C18	V _{CC} B2
C19	TCK
C20	VMV2
C21	V _{PUMP}
C22	V _{JTAG}
C23	V _{CC} B1
C24	IO53NSB1
C25	IO51NPB1
C26	GCA1/IO50PPB1
C27	GCC0/IO48NDB1
C28	V _{CC} B1
C29	IO42NDB1
C30	GNDQ
C31	GBA1/IO40RSB0
C32	GBB0/IO37RSB0
C33	V _{CC}
C34	IO24RSB0
C35	IO19RSB0
C36	IO16RSB0
C37	IO10RSB0
C38	V _{CC} B0
C39	GAB1/IO03RSB0
C40	VMV0
D1	GND
D2	GND
D3	GND
D4	GND

121-Pin CSP



Notes:

1. This is the bottom view of the package.
2. The die attach paddle center of the package is tied to ground (GND).

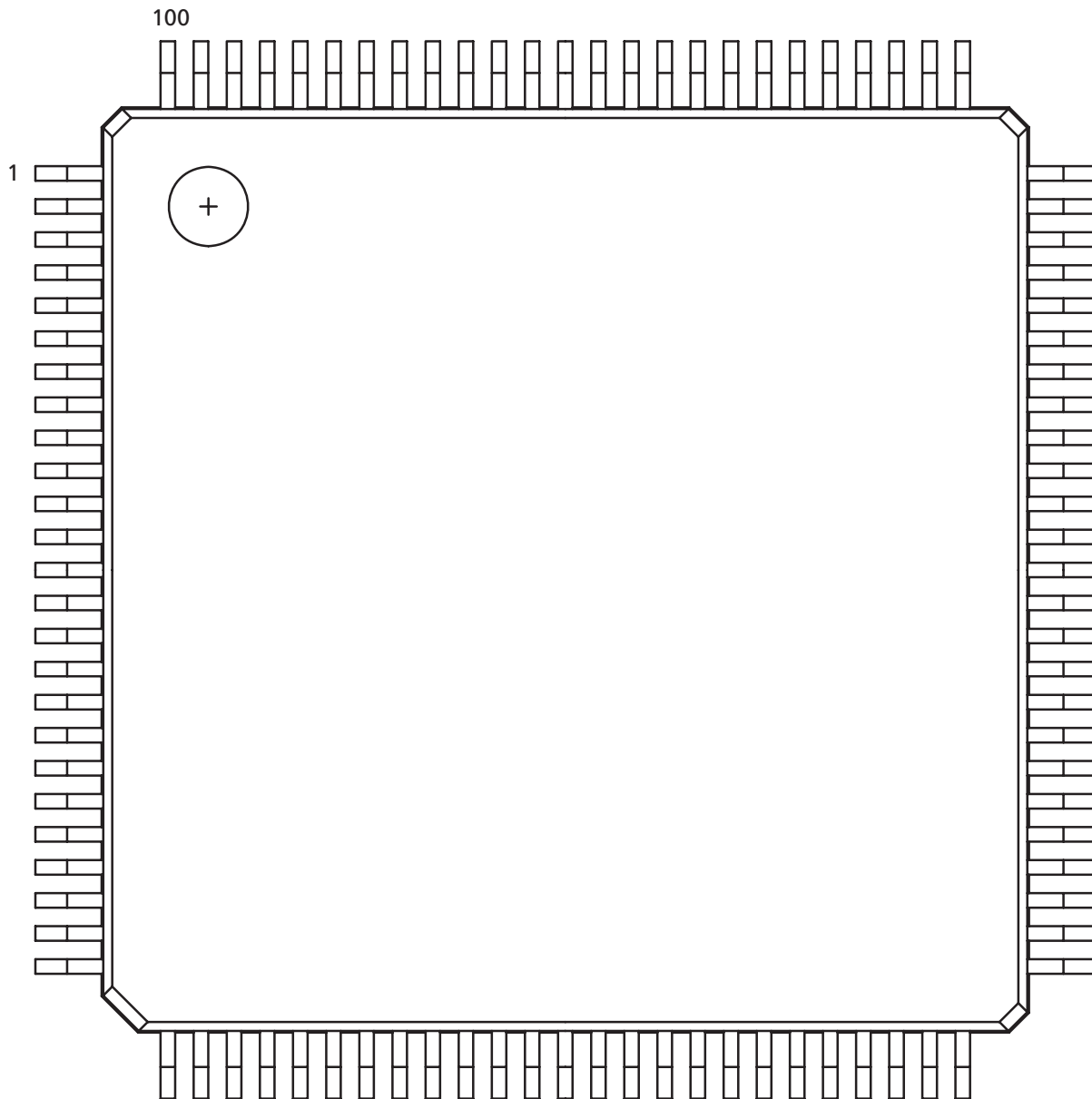
Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

121-Pin CSP		121-Pin CSP		121-Pin CSP	
Pin Number	A3P060 Function	Pin Number	A3P060 Function	Pin Number	A3P060 Function
A1	GNDQ	D4	IO10RSB0	G7	V _{CC}
A2	IO01RSB0	D5	IO11RSB0	G8	GDC0/IO46RSB0
A3	GAA1/IO03RSB0	D6	IO18RSB0	G9	GDA1/IO49RSB0
A4	GAC1/IO07RSB0	D7	IO32RSB0	G10	GDB0/IO48RSB0
A5	IO15RSB0	D8	IO31RSB0	G11	GCA0/IO40RSB0
A6	IO13RSB0	D9	GCA2/IO41RSB0	H1	IO75RSB1
A7	IO17RSB0	D10	IO30RSB0	H2	IO76RSB1
A8	GBB1/IO22RSB0	D11	IO33RSB0	H3	GFC2/IO78RSB1
A9	GBA1/IO24RSB0	E1	IO87RSB1	H4	GFA2/IO80RSB1
A10	GNDQ	E2	GFC0/IO85RSB1	H5	IO77RSB1
A11	VMV0	E3	IO92RSB1	H6	GEC2/IO66RSB1
B1	GAA2/IO95RSB1	E4	IO94RSB1	H7	IO54RSB1
B2	IO00RSB0	E5	V _{CC}	H8	GDC2/IO53RSB1
B3	GAA0/IO02RSB0	E6	V _{CC} B0	H9	V _{JTAG}
B4	GAC0/IO06RSB0	E7	GND	H10	TRST
B5	IO08RSB0	E8	GCC0/IO36RSB0	H11	IO44RSB0
B6	IO12RSB0	E9	IO34RSB0	J1	GEC1/IO74RSB1
B7	IO16RSB0	E10	GCB1/IO37RSB0	J2	GEC0/IO73RSB1
B8	GBC1/IO20RSB0	E11	GCC1/IO35RSB0	J3	GEB1/IO72RSB1
B9	GBB0/IO21RSB0	F1	V _{CC} COMPLF	J4	GEA0/IO69RSB1
B10	GBB2/IO27RSB0	F2	GFB0/IO83RSB1	J5	GEB2/IO67RSB1
B11	GBA2/IO25RSB0	F3	GFA0/IO82RSB1	J6	IO62RSB1
C1	IO89RSB1	F4	GFC1/IO86RSB1	J7	GDA2/IO51RSB1
C2	GAC2/IO91RSB1	F5	V _{CC} B1	J8	GDB2/IO52RSB1
C3	GAB1/IO05RSB0	F6	V _{CC}	J9	TDI
C4	GAB0/IO04RSB0	F7	V _{CC} B0	J10	TDO
C5	IO09RSB0	F8	GCB2/IO42RSB0	J11	GDC1/IO45RSB0
C6	IO14RSB0	F9	GCC2/IO43RSB0	K1	GEB0/IO71RSB1
C7	GBA0/IO23RSB0	F10	GCB0/IO38RSB0	K2	GEA1/IO70RSB1
C8	GBC0/IO19RSB0	F11	GCA1/IO39RSB0	K3	GEA2/IO68RSB1
C9	IO26RSB0	G1	V _{CC} PLF	K4	IO64RSB1
C10	IO28RSB0	G2	GFB2/IO79RSB1	K5	IO60RSB1
C11	GBC2/IO29RSB0	G3	GFA1/IO81RSB1	K6	IO59RSB1
D1	IO88RSB1	G4	GFB1/IO84RSB1	K7	IO56RSB1
D2	IO90RSB1	G5	GND	K8	TCK
D3	GAB2/IO93RSB1	G6	V _{CC} B1	K9	TMS

121-Pin CSP	
Pin Number	A3P060 Function
K10	V _{PUMP}
K11	GDB1/IO47RSB0
L1	VMV1
L2	GNDQ
L3	IO65RSB1
L4	IO63RSB1
L5	IO61RSB1
L6	IO58RSB1
L7	IO57RSB1
L8	IO55RSB1
L9	GNDQ
L10	GDA0/IO50RSB0
L11	VMV1

100-Pin VQFP



Note: This is the top view of the package.

Note

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100-Pin VQFP		100-Pin VQFP		100-Pin VQFP	
Pin Number	A3P030 Function	Pin Number	A3P030 Function	Pin Number	A3P030 Function
1	GND	37	V _{CC}	73	IO27RSB0
2	IO82RSB1	38	GND	74	IO26RSB0
3	IO81RSB1	39	V _{CC} B1	75	IO25RSB0
4	IO80RSB1	40	IO49RSB1	76	IO24RSB0
5	IO79RSB1	41	IO47RSB1	77	IO23RSB0
6	IO78RSB1	42	IO46RSB1	78	IO22RSB0
7	IO77RSB1	43	IO45RSB1	79	IO21RSB0
8	IO76RSB1	44	IO44RSB1	80	IO20RSB0
9	GND	45	IO43RSB1	81	IO19RSB0
10	IO75RSB1	46	IO42RSB1	82	IO18RSB0
11	IO74RSB1	47	TCK	83	IO17RSB0
12	GECO/IO73RSB1	48	TDI	84	IO16RSB0
13	GEAO/IO72RSB1	49	TMS	85	IO15RSB0
14	GEBO/IO71RSB1	50	NC	86	IO14RSB0
15	IO70RSB1	51	GND	87	V _{CC} B0
16	IO69RSB1	52	V _{PUMP}	88	GND
17	V _{CC}	53	NC	89	V _{CC}
18	V _{CC} B1	54	TDO	90	IO12RSB0
19	IO68RSB1	55	TRST	91	IO10RSB0
20	IO67RSB1	56	V _{JTAG}	92	IO08RSB0
21	IO66RSB1	57	IO41RSB0	93	IO07RSB0
22	IO65RSB1	58	IO40RSB0	94	IO06RSB0
23	IO64RSB1	59	IO39RSB0	95	IO05RSB0
24	IO63RSB1	60	IO38RSB0	96	IO04RSB0
25	IO62RSB1	61	IO37RSB0	97	IO03RSB0
26	IO61RSB1	62	IO36RSB0	98	IO02RSB0
27	IO60RSB1	63	GDB0/IO34RSB0	99	IO01RSB0
28	IO59RSB1	64	GDA0/IO33RSB0	100	IO00RSB0
29	IO58RSB1	65	GDC0/IO32RSB0		
30	IO57RSB1	66	V _{CC} B0		
31	IO56RSB1	67	GND		
32	IO55RSB1	68	V _{CC}		
33	IO54RSB1	69	IO31RSB0		
34	IO53RSB1	70	IO30RSB0		
35	IO52RSB1	71	IO29RSB0		
36	IO51RSB1	72	IO28RSB0		

100-Pin VQFP		100-Pin VQFP		100-Pin VQFP	
Pin Number	A3P060 Function	Pin Number	A3P060 Function	Pin Number	A3P060 Function
1	GND	37	V _{CC}	73	GBA2/IO25RSB0
2	GAA2/IO51RSB1	38	GND	74	VMV0
3	IO52RSB1	39	V _{CC1} B1	75	GNDQ
4	GAB2/IO53RSB1	40	IO60RSB1	76	GBA1/IO24RSB0
5	IO95RSB1	41	IO59RSB1	77	GBA0/IO23RSB0
6	GAC2/IO94RSB1	42	IO58RSB1	78	GBB1/IO22RSB0
7	IO93RSB1	43	IO57RSB1	79	GBB0/IO21RSB0
8	IO92RSB1	44	GDC2/IO56RSB1	80	GBC1/IO20RSB0
9	GND	45	GDB2/IO55RSB1	81	GBC0/IO19RSB0
10	GFB1/IO87RSB1	46	GDA2/IO54RSB1	82	IO18RSB0
11	GFB0/IO86RSB1	47	TCK	83	IO17RSB0
12	V _{COMPLF}	48	TDI	84	IO15RSB0
13	GFA0/IO85RSB1	49	TMS	85	IO13RSB0
14	V _{CCPLF}	50	VMV1	86	IO11RSB0
15	GFA1/IO84RSB1	51	GND	87	V _{CC1} B0
16	GFA2/IO83RSB1	52	V _{PUMP}	88	GND
17	V _{CC}	53	NC	89	V _{CC}
18	V _{CC1} B1	54	TDO	90	IO10RSB0
19	GEC1/IO77RSB1	55	TRST	91	IO09RSB0
20	GEB1/IO75RSB1	56	V _{JTAG}	92	IO08RSB0
21	GEB0/IO74RSB1	57	GDA1/IO49RSB0	93	GAC1/IO07RSB0
22	GEA1/IO73RSB1	58	GDC0/IO46RSB0	94	GAC0/IO06RSB0
23	GEA0/IO72RSB1	59	GDC1/IO45RSB0	95	GAB1/IO05RSB0
24	VMV1	60	GCC2/IO43RSB0	96	GAB0/IO04RSB0
25	GNDQ	61	GCB2/IO42RSB0	97	GAA1/IO03RSB0
26	GEA2/IO71RSB1	62	GCA0/IO40RSB0	98	GAA0/IO02RSB0
27	GEB2/IO70RSB1	63	GCA1/IO39RSB0	99	IO01RSB0
28	GEC2/IO69RSB1	64	GCC0/IO36RSB0	100	IO00RSB0
29	IO68RSB1	65	GCC1/IO35RSB0		
30	IO67RSB1	66	V _{CC1} B0		
31	IO66RSB1	67	GND		
32	IO65RSB1	68	V _{CC}		
33	IO64RSB1	69	IO31RSB0		
34	IO63RSB1	70	GBC2/IO29RSB0		
35	IO62RSB1	71	GBB2/IO27RSB0		
36	IO61RSB1	72	IO26RSB0		

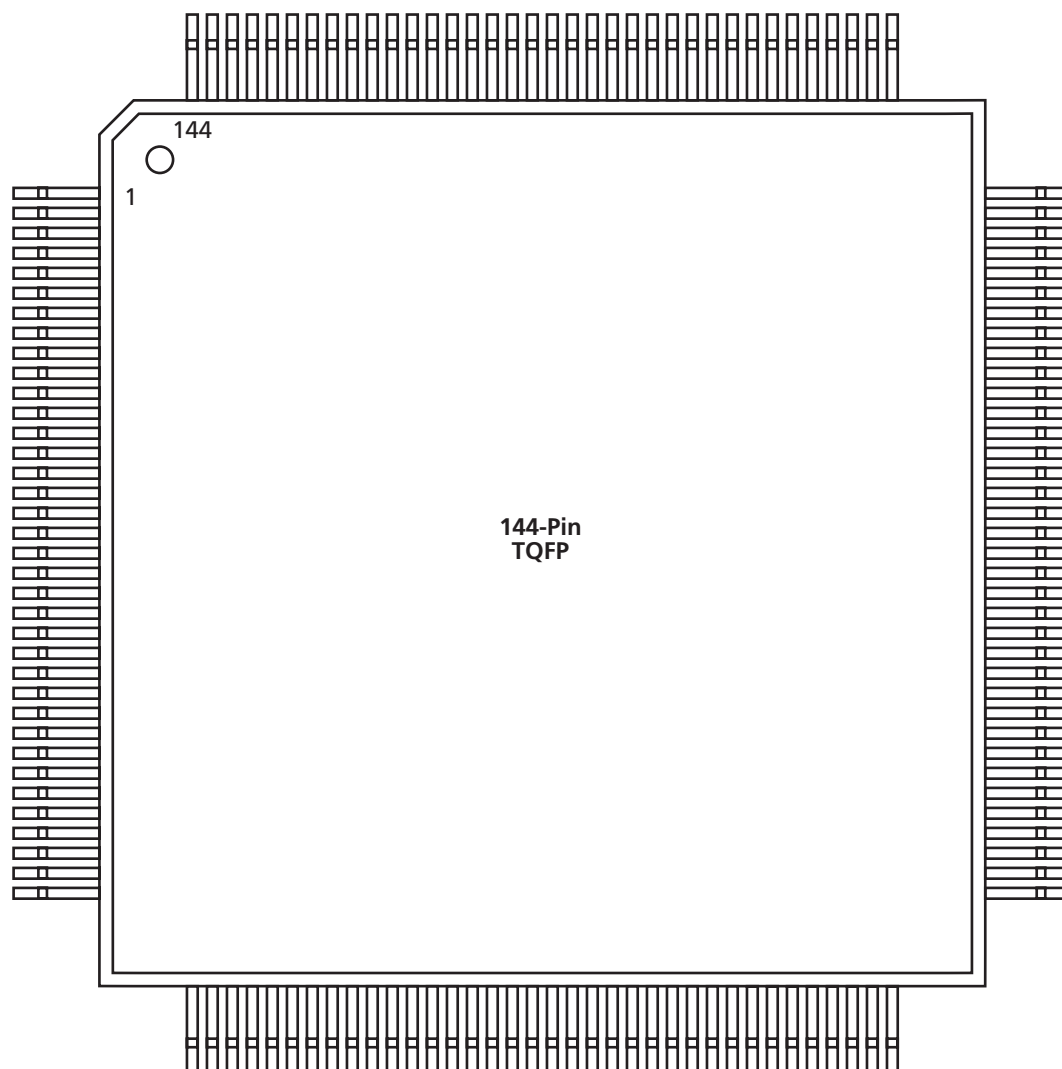
100-Pin VQFP	
Pin Number	A3P125 Function
1	GND
2	GAA2/IO67RSB1
3	IO68RSB1
4	GAB2/IO69RSB1
5	IO132RSB1
6	GAC2/IO131RSB1
7	IO130RSB1
8	IO129RSB1
9	GND
10	GFB1/IO124RSB1
11	GFB0/IO123RSB1
12	V _{COMPLF}
13	GFA0/IO122RSB1
14	V _{CCPLF}
15	GFA1/IO121RSB1
16	GFA2/IO120RSB1
17	V _{CC}
18	V _{CCIB1}
19	GEC0/IO111RSB1
20	GEB1/IO110RSB1
21	GEB0/IO109RSB1
22	GEA1/IO108RSB1
23	GEA0/IO107RSB1
24	VMV1
25	GNDQ
26	GEA2/IO106RSB1
27	GEB2/IO105RSB1
28	GEC2/IO104RSB1
29	IO102RSB1
30	IO100RSB1
31	IO99RSB1
32	IO97RSB1
33	IO96RSB1
34	IO95RSB1
35	IO94RSB1
36	IO93RSB1

100-Pin VQFP	
Pin Number	A3P125 Function
37	V _{CC}
38	GND
39	V _{CCIB1}
40	IO87RSB1
41	IO84RSB1
42	IO81RSB1
43	IO75RSB1
44	GDC2/IO72RSB1
45	GDB2/IO71RSB1
46	GDA2/IO70RSB1
47	TCK
48	TDI
49	TMS
50	VMV1
51	GND
52	V _{PUMP}
53	NC
54	TDO
55	TRST
56	V _{JTAG}
57	GDA1/IO65RSB0
58	GDC0/IO62RSB0
59	GDC1/IO61RSB0
60	GCC2/IO59RSB0
61	GCB2/IO58RSB0
62	GCA0/IO56RSB0
63	GCA1/IO55RSB0
64	GCC0/IO52RSB0
65	GCC1/IO51RSB0
66	V _{CCIB0}
67	GND
68	V _{CC}
69	IO47RSB0
70	GBC2/IO45RSB0
71	GGB2/IO43RSB0
72	IO42RSB0

100-Pin VQFP	
Pin Number	A3P125 Function
73	GBA2/IO41RSB0
74	VMV0
75	GNDQ
76	GBA1/IO40RSB0
77	GBA0/IO39RSB0
78	GGB1/IO38RSB0
79	GGB0/IO37RSB0
80	GBC1/IO36RSB0
81	GBC0/IO35RSB0
82	IO32RSB0
83	IO28RSB0
84	IO25RSB0
85	IO22RSB0
86	IO19RSB0
87	V _{CCIB0}
88	GND
89	V _{CC}
90	IO15RSB0
91	IO13RSB0
92	IO11RSB0
93	IO09RSB0
94	IO07RSB0
95	GAC1/IO05RSB0
96	GAC0/IO04RSB0
97	GAB1/IO03RSB0
98	GAB0/IO02RSB0
99	GAA1/IO01RSB0
100	GAA0/IO00RSB0

100-Pin VQFP		100-Pin VQFP		100-Pin VQFP	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
1	GND	37	V _{CC}	73	GBA2/IO41PDB1
2	GAA2/IO118UDB3	38	GND	74	VMV1
3	IO118VDB3	39	V _{CC} B2	75	GNDQ
4	GAB2/IO117UDB3	40	IO77RSB2	76	GBA1/IO40RSB0
5	IO117VDB3	41	IO74RSB2	77	GBA0/IO39RSB0
6	GAC2/IO116UDB3	42	IO71RSB2	78	GBB1/IO38RSB0
7	IO116VDB3	43	GDC2/IO63RSB2	79	GBB0/IO37RSB0
8	IO112PSB3	44	GDB2/IO62RSB2	80	GBC1/IO36RSB0
9	GND	45	GDA2/IO61RSB2	81	GBC0/IO35RSB0
10	GFB1/IO109PDB3	46	GNDQ	82	IO29RSB0
11	GFB0/IO109NDB3	47	TCK	83	IO27RSB0
12	V _{COMPLF}	48	TDI	84	IO25RSB0
13	GFA0/IO108NPB3	49	TMS	85	IO23RSB0
14	V _{CC} PLF	50	VMV2	86	IO21RSB0
15	GFA1/IO108PPB3	51	GND	87	V _{CC} B0
16	GFA2/IO107PSB3	52	V _{PUMP}	88	GND
17	V _{CC}	53	NC	89	V _{CC}
18	V _{CC} B3	54	TDO	90	IO15RSB0
19	GFC2/IO105PSB3	55	TRST	91	IO13RSB0
20	GEC1/IO100PDB3	56	V _{JTAG}	92	IO11RSB0
21	GEC0/IO100NDB3	57	GDA1/IO60USB1	93	GAC1/IO05RSB0
22	GEA1/IO98PDB3	58	GDC0/IO58VDB1	94	GAC0/IO04RSB0
23	GEA0/IO98NDB3	59	GDC1/IO58UDB1	95	GAB1/IO03RSB0
24	VMV3	60	IO52NDB1	96	GAB0/IO02RSB0
25	GNDQ	61	GCB2/IO52PDB1	97	GAA1/IO01RSB0
26	GEA2/IO97RSB2	62	GCA1/IO50PDB1	98	GAA0/IO00RSB0
27	GEB2/IO96RSB2	63	GCA0/IO50NDB1	99	GNDQ
28	GEC2/IO95RSB2	64	GCC0/IO48NDB1	100	VMV0
29	IO93RSB2	65	GCC1/IO48PDB1		
30	IO92RSB2	66	V _{CC} B1		
31	IO91RSB2	67	GND		
32	IO90RSB2	68	V _{CC}		
33	IO88RSB2	69	IO43NDB1		
34	IO86RSB2	70	GBC2/IO43PDB1		
35	IO85RSB2	71	GBB2/IO42PSB1		
36	IO84RSB2	72	IO41NDB1		

144-Pin TQFP



Note: This is the top view of the package.

Note

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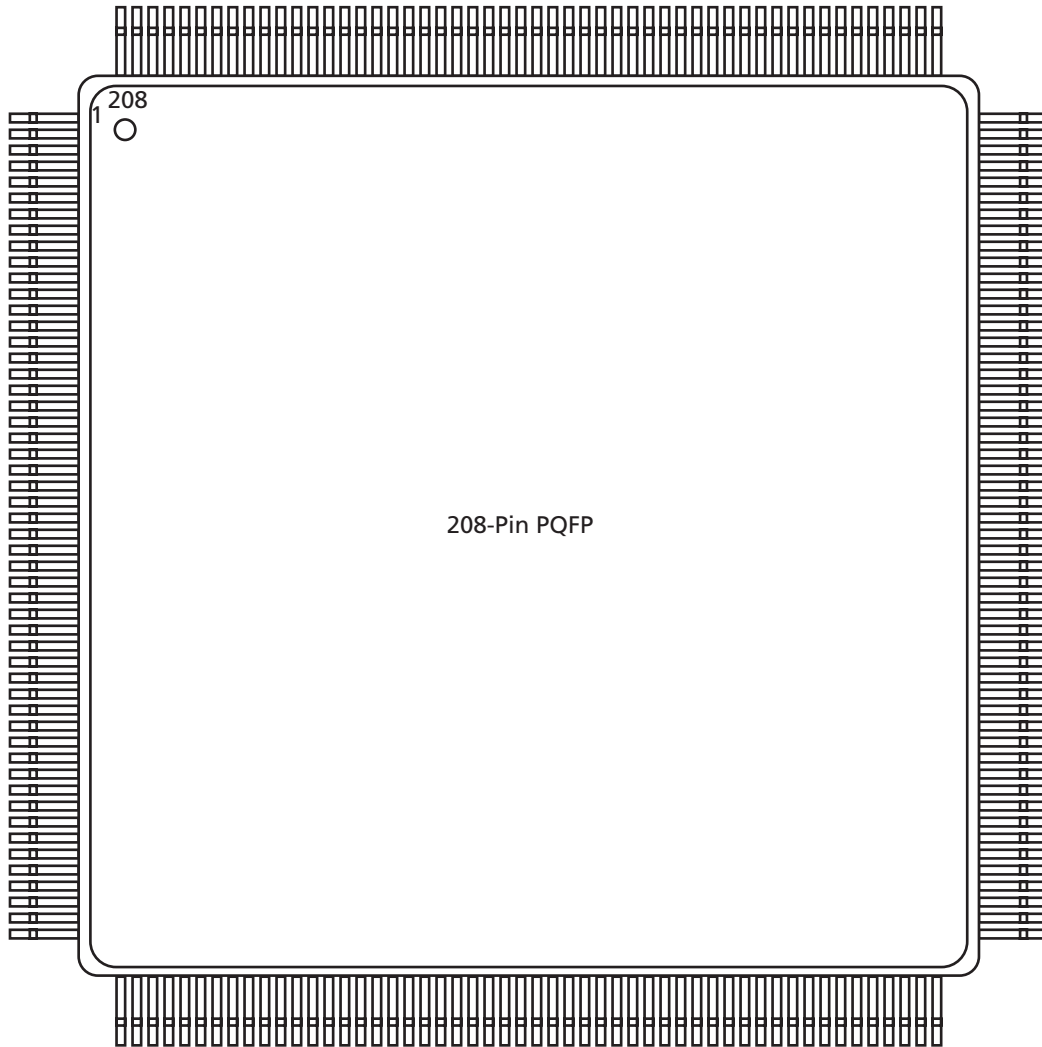
144-Pin TQFP		144-Pin TQFP		144-Pin TQFP	
Pin Number	A3P060 Function	Pin Number	A3P060 Function	Pin Number	A3P060 Function
1	GAA2/IO51RSB1	37	NC	73	V _{PUMP}
2	IO52RSB1	38	GEA2/IO71RSB1	74	NC
3	GAB2/IO53RSB1	39	GEB2/IO70RSB1	75	TDO
4	IO95RSB1	40	GEC2/IO69RSB1	76	TRST
5	GAC2/IO94RSB1	41	IO68RSB1	77	V _{JTAG}
6	IO93RSB1	42	IO67RSB1	78	GDA0/IO50RSB0
7	IO92RSB1	43	IO66RSB1	79	GDB0/IO48RSB0
8	IO91RSB1	44	IO65RSB1	80	GDB1/IO47RSB0
9	V _{CC}	45	V _{CC}	81	V _{CCI} B0
10	GND	46	GND	82	GND
11	V _{CCI} B1	47	V _{CCI} B1	83	IO44RSB0
12	IO90RSB1	48	NC	84	GCC2/IO43RSB0
13	GFC1/IO89RSB1	49	IO64RSB1	85	GCB2/IO42RSB0
14	GFC0/IO88RSB1	50	NC	86	GCA2/IO41RSB0
15	GFB1/IO87RSB1	51	IO63RSB1	87	GCA0/IO40RSB0
16	GFB0/IO86RSB1	52	NC	88	GCA1/IO39RSB0
17	V _{COMPLF}	53	IO62RSB1	89	GCB0/IO38RSB0
18	GFA0/IO85RSB1	54	NC	90	GCB1/IO37RSB0
19	V _{CCPLF}	55	IO61RSB1	91	GCC0/IO36RSB0
20	GFA1/IO84RSB1	56	NC	92	GCC1/IO35RSB0
21	GFA2/IO83RSB1	57	NC	93	IO34RSB0
22	GFB2/IO82RSB1	58	IO60RSB1	94	IO33RSB0
23	GFC2/IO81RSB1	59	IO59RSB1	95	NC
24	IO80RSB1	60	IO58RSB1	96	NC
25	IO79RSB1	61	IO57RSB1	97	NC
26	IO78RSB1	62	NC	98	V _{CCI} B0
27	GND	63	GND	99	GND
28	V _{CCI} B1	64	NC	100	V _{CC}
29	GEC1/IO77RSB1	65	GDC2/IO56RSB1	101	IO30RSB0
30	GEC0/IO76RSB1	66	GDB2/IO55RSB1	102	GBC2/IO29RSB0
31	GEB1/IO75RSB1	67	GDA2/IO54RSB1	103	IO28RSB0
32	GEB0/IO74RSB1	68	GNDQ	104	GBB2/IO27RSB0
33	GEA1/IO73RSB1	69	TCK	105	IO26RSB0
34	GEA0/IO72RSB1	70	TDI	106	GBA2/IO25RSB0
35	VMV1	71	TMS	107	VMV0
36	GNDQ	72	VMV1	108	GNDQ

144-Pin TQFP	
Pin Number	A3P060 Function
109	NC
110	NC
111	GBA1/IO24RSB0
112	GBA0/IO23RSB0
113	GBB1/IO22RSB0
114	GBB0/IO21RSB0
115	GBC1/IO20RSB0
116	GBC0/IO19RSB0
117	V _{CCI} B0
118	GND
119	V _{CC}
120	IO18RSB0
121	IO17RSB0
122	IO16RSB0
123	IO15RSB0
124	IO14RSB0
125	IO13RSB0
126	IO12RSB0
127	IO11RSB0
128	NC
129	IO10RSB0
130	IO09RSB0
131	IO08RSB0
132	GAC1/IO07RSB0
133	GAC0/IO06RSB0
134	NC
135	GND
136	NC
137	GAB1/IO05RSB0
138	GAB0/IO04RSB0
139	GAA1/IO03RSB0
140	GAA0/IO02RSB0
141	IO01RSB0
142	IO00RSB0
143	GNDQ
144	VMV0

144-Pin TQFP		144-Pin TQFP		144-Pin TQFP	
Pin Number	A3P125 Function	Pin Number	A3P125 Function	Pin Number	A3P125 Function
1	GAA2/IO67RSB1	37	NC	73	V _{PUMP}
2	IO68RSB1	38	GEA2/IO106RSB1	74	NC
3	GAB2/IO69RSB1	39	GEB2/IO105RSB1	75	TDO
4	IO132RSB1	40	GEC2/IO104RSB1	76	TRST
5	GAC2/IO131RSB1	41	IO103RSB1	77	V _{JTAG}
6	IO130RSB1	42	IO102RSB1	78	GDA0/IO66RSB0
7	IO129RSB1	43	IO101RSB1	79	GDB0/IO64RSB0
8	IO128RSB1	44	IO100RSB1	80	GDB1/IO63RSB0
9	V _{CC}	45	V _{CC}	81	V _{CC} I _{B0}
10	GND	46	GND	82	GND
11	V _{CC} I _{B1}	47	V _{CC} I _{B1}	83	IO60RSB0
12	IO127RSB1	48	IO99RSB1	84	GCC2/IO59RSB0
13	GFC1/IO126RSB1	49	IO97RSB1	85	GCB2/IO58RSB0
14	GFC0/IO125RSB1	50	IO95RSB1	86	GCA2/IO57RSB0
15	GFB1/IO124RSB1	51	IO93RSB1	87	GCA0/IO56RSB0
16	GFB0/IO123RSB1	52	IO92RSB1	88	GCA1/IO55RSB0
17	V _{CC} OMPLF	53	IO90RSB1	89	GCB0/IO54RSB0
18	GFA0/IO122RSB1	54	IO88RSB1	90	GCB1/IO53RSB0
19	V _{CC} PLF	55	IO86RSB1	91	GCC0/IO52RSB0
20	GFA1/IO121RSB1	56	IO84RSB1	92	GCC1/IO51RSB0
21	GFA2/IO120RSB1	57	IO83RSB1	93	IO50RSB0
22	GFB2/IO119RSB1	58	IO82RSB1	94	IO49RSB0
23	GFC2/IO118RSB1	59	IO81RSB1	95	NC
24	IO117RSB1	60	IO80RSB1	96	NC
25	IO116RSB1	61	IO79RSB1	97	NC
26	IO115RSB1	62	V _{CC}	98	V _{CC} I _{B0}
27	GND	63	GND	99	GND
28	V _{CC} I _{B1}	64	V _{CC} I _{B1}	100	V _{CC}
29	GEC1/IO112RSB1	65	GDC2/IO72RSB1	101	IO47RSB0
30	GEC0/IO111RSB1	66	GDB2/IO71RSB1	102	GBC2/IO45RSB0
31	GEB1/IO110RSB1	67	GDA2/IO70RSB1	103	IO44RSB0
32	GEB0/IO109RSB1	68	GNDQ	104	GBB2/IO43RSB0
33	GEA1/IO108RSB1	69	TCK	105	IO42RSB0
34	GEA0/IO107RSB1	70	TDI	106	GBA2/IO41RSB0
35	VMV1	71	TMS	107	VMV0
36	GNDQ	72	VMV1	108	GNDQ

144-Pin TQFP	
Pin Number	A3P125 Function
109	GBA1/IO40RSB0
110	GBA0/IO39RSB0
111	GBB1/IO38RSB0
112	GBB0/IO37RSB0
113	GBC1/IO36RSB0
114	GBC0/IO35RSB0
115	IO34RSB0
116	IO33RSB0
117	V _{CCI} B0
118	GND
119	V _{CC}
120	IO29RSB0
121	IO28RSB0
122	IO27RSB0
123	IO25RSB0
124	IO23RSB0
125	IO21RSB0
126	IO19RSB0
127	IO17RSB0
128	IO16RSB0
129	IO14RSB0
130	IO12RSB0
131	IO10RSB0
132	IO08RSB0
133	IO06RSB0
134	V _{CCI} B0
135	GND
136	V _{CC}
137	GAC1/IO05RSB0
138	GAC0/IO04RSB0
139	GAB1/IO03RSB0
140	GAB0/IO02RSB0
141	GAA1/IO01RSB0
142	GAA0/IO00RSB0
143	GNDQ
144	VMV0

208-Pin PQFP



Note: This is the top view of the package.

Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P125 Function	Pin Number	A3P125 Function	Pin Number	A3P125 Function
1	GND	37	IO116RSB1	73	IO92RSB1
2	GAA2/IO67RSB1	38	IO115RSB1	74	IO91RSB1
3	IO68RSB1	39	NC	75	IO90RSB1
4	GAB2/IO69RSB1	40	V _{CC} B1	76	IO89RSB1
5	IO132RSB1	41	GND	77	IO88RSB1
6	GAC2/IO131RSB1	42	IO114RSB1	78	IO87RSB1
7	NC	43	IO113RSB1	79	IO86RSB1
8	NC	44	GEC1/IO112RSB1	80	IO85RSB1
9	IO130RSB1	45	GEC0/IO111RSB1	81	GND
10	IO129RSB1	46	GEB1/IO110RSB1	82	IO84RSB1
11	NC	47	GEB0/IO109RSB1	83	IO83RSB1
12	IO128RSB1	48	GEA1/IO108RSB1	84	IO82RSB1
13	NC	49	GEA0/IO107RSB1	85	IO81RSB1
14	NC	50	VMV1	86	IO80RSB1
15	NC	51	GNDQ	87	IO79RSB1
16	V _{CC}	52	GND	88	V _{CC}
17	GND	53	NC	89	V _{CC} B1
18	V _{CC} B1	54	NC	90	IO78RSB1
19	IO127RSB1	55	GEA2/IO106RSB1	91	IO77RSB1
20	NC	56	GEB2/IO105RSB1	92	IO76RSB1
21	GFC1/IO126RSB1	57	GEC2/IO104RSB1	93	IO75RSB1
22	GFC0/IO125RSB1	58	IO103RSB1	94	IO74RSB1
23	GFB1/IO124RSB1	59	IO102RSB1	95	IO73RSB1
24	GFB0/IO123RSB1	60	IO101RSB1	96	GDC2/IO72RSB1
25	V _{CC} PLF	61	IO100RSB1	97	GND
26	GFA0/IO122RSB1	62	V _{CC} B1	98	GDB2/IO71RSB1
27	V _{CC} PLF	63	IO99RSB1	99	GDA2/IO70RSB1
28	GFA1/IO121RSB1	64	IO98RSB1	100	GNDQ
29	GND	65	GND	101	TCK
30	GFA2/IO120RSB1	66	IO97RSB1	102	TDI
31	NC	67	IO96RSB1	103	TMS
32	GFB2/IO119RSB1	68	IO95RSB1	104	VMV1
33	NC	69	IO94RSB1	105	GND
34	GFC2/IO118RSB1	70	IO93RSB1	106	V _{PUMP}
35	IO117RSB1	71	V _{CC}	107	NC
36	NC	72	V _{CC} B1	108	TDO

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P125 Function	Pin Number	A3P125 Function	Pin Number	A3P125 Function
109	TRST	145	IO46RSB0	181	IO21RSB0
110	V _{JTAG}	146	NC	182	IO20RSB0
111	GDA0/IO66RSB0	147	NC	183	IO19RSB0
112	GDA1/IO65RSB0	148	NC	184	IO18RSB0
113	GDB0/IO64RSB0	149	GBC2/IO45RSB0	185	IO17RSB0
114	GDB1/IO63RSB0	150	IO44RSB0	186	V _{CC} B0
115	GDC0/IO62RSB0	151	GBB2/IO43RSB0	187	V _{CC}
116	GDC1/IO61RSB0	152	IO42RSB0	188	IO16RSB0
117	NC	153	GBA2/IO41RSB0	189	IO15RSB0
118	NC	154	VMV0	190	IO14RSB0
119	NC	155	GNDQ	191	IO13RSB0
120	NC	156	GND	192	IO12RSB0
121	NC	157	NC	193	IO11RSB0
122	GND	158	GBA1/IO40RSB0	194	IO10RSB0
123	V _{CC} B0	159	GBA0/IO39RSB0	195	GND
124	NC	160	GBB1/IO38RSB0	196	IO09RSB0
125	NC	161	GBB0/IO37RSB0	197	IO08RSB0
126	V _{CC}	162	GND	198	IO07RSB0
127	IO60RSB0	163	GBC1/IO36RSB0	199	IO06RSB0
128	GCC2/IO59RSB0	164	GBC0/IO35RSB0	200	V _{CC} B0
129	GCB2/IO58RSB0	165	IO34RSB0	201	GAC1/IO05RSB0
130	GND	166	IO33RSB0	202	GAC0/IO04RSB0
131	GCA2/IO57RSB0	167	IO32RSB0	203	GAB1/IO03RSB0
132	GCA0/IO56RSB0	168	IO31RSB0	204	GAB0/IO02RSB0
133	GCA1/IO55RSB0	169	IO30RSB0	205	GAA1/IO01RSB0
134	GCB0/IO54RSB0	170	V _{CC} B0	206	GAA0/IO00RSB0
135	GCB1/IO53RSB0	171	V _{CC}	207	GNDQ
136	GCC0/IO52RSB0	172	IO29RSB0	208	VMV0
137	GCC1/IO51RSB0	173	IO28RSB0		
138	IO50RSB0	174	IO27RSB0		
139	IO49RSB0	175	IO26RSB0		
140	V _{CC} B0	176	IO25RSB0		
141	GND	177	IO24RSB0		
142	V _{CC}	178	GND		
143	IO48RSB0	179	IO23RSB0		
144	IO47RSB0	180	IO22RSB0		

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
1	GND	37	IO104PDB3	73	IO83RSB2
2	GAA2/IO118UDB3	38	IO104NDB3	74	IO82RSB2
3	IO118VDB3	39	IO103PSB3	75	IO81RSB2
4	GAB2/IO117UDB3	40	V _{CC} B3	76	IO80RSB2
5	IO117VDB3	41	GND	77	IO79RSB2
6	GAC2/IO116UDB3	42	IO101PDB3	78	IO78RSB2
7	IO116VDB3	43	IO101NDB3	79	IO77RSB2
8	IO115UDB3	44	GEC1/IO100PDB3	80	IO76RSB2
9	IO115VDB3	45	GEC0/IO100NDB3	81	GND
10	IO114UDB3	46	GEB1/IO99PDB3	82	IO75RSB2
11	IO114VDB3	47	GEB0/IO99NDB3	83	IO74RSB2
12	IO113PDB3	48	GEA1/IO98PDB3	84	IO73RSB2
13	IO113NDB3	49	GEA0/IO98NDB3	85	IO72RSB2
14	IO112PDB3	50	VMV3	86	IO71RSB2
15	IO112NDB3	51	GNDQ	87	IO70RSB2
16	V _{CC}	52	GND	88	V _{CC}
17	GND	53	NC	89	V _{CC} B2
18	V _{CC} B3	54	NC	90	IO69RSB2
19	IO111PDB3	55	GEA2/IO97RSB2	91	IO68RSB2
20	IO111NDB3	56	GEB2/IO96RSB2	92	IO67RSB2
21	GFC1/IO110PDB3	57	GEC2/IO95RSB2	93	IO66RSB2
22	GFC0/IO110NDB3	58	IO94RSB2	94	IO65RSB2
23	GFB1/IO109PDB3	59	IO93RSB2	95	IO64RSB2
24	GFB0/IO109NDB3	60	IO92RSB2	96	GDC2/IO63RSB2
25	V _{CC} PLF	61	IO91RSB2	97	GND
26	GFA0/IO108NPB3	62	V _{CC} B2	98	GDB2/IO62RSB2
27	V _{CC} PLF	63	IO90RSB2	99	GDA2/IO61RSB2
28	GFA1/IO108PPB3	64	IO89RSB2	100	GNDQ
29	GND	65	GND	101	TCK
30	GFA2/IO107PDB3	66	IO88RSB2	102	TDI
31	IO107NDB3	67	IO87RSB2	103	TMS
32	GFB2/IO106PDB3	68	IO86RSB2	104	VMV2
33	IO106NDB3	69	IO85RSB2	105	GND
34	GFC2/IO105PDB3	70	IO84RSB2	106	V _{PUMP}
35	IO105NDB3	71	V _{CC}	107	NC
36	NC	72	V _{CC} B2	108	TDO

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
109	TRST	145	IO45PDB1	181	IO21RSB0
110	V _{JTAG}	146	IO44NDB1	182	IO20RSB0
111	GDA0/IO60VDB1	147	IO44PDB1	183	IO19RSB0
112	GDA1/IO60UDB1	148	IO43NDB1	184	IO18RSB0
113	GDB0/IO59VDB1	149	GBC2/IO43PDB1	185	IO17RSB0
114	GDB1/IO59UDB1	150	IO42NDB1	186	V _{CC} B0
115	GDC0/IO58VDB1	151	GBB2/IO42PDB1	187	V _{CC}
116	GDC1/IO58UDB1	152	IO41NDB1	188	IO16RSB0
117	IO57VDB1	153	GBA2/IO41PDB1	189	IO15RSB0
118	IO57UDB1	154	VMV1	190	IO14RSB0
119	IO56NDB1	155	GNDQ	191	IO13RSB0
120	IO56PDB1	156	GND	192	IO12RSB0
121	IO55RSB1	157	NC	193	IO11RSB0
122	GND	158	GBA1/IO40RSB0	194	IO10RSB0
123	V _{CC} B1	159	GBA0/IO39RSB0	195	GND
124	NC	160	GBB1/IO38RSB0	196	IO09RSB0
125	NC	161	GBB0/IO37RSB0	197	IO08RSB0
126	V _{CC}	162	GND	198	IO07RSB0
127	IO53NDB1	163	GBC1/IO36RSB0	199	IO06RSB0
128	GCC2/IO53PDB1	164	GBC0/IO35RSB0	200	V _{CC} B0
129	GCB2/IO52PSB1	165	IO34RSB0	201	GAC1/IO05RSB0
130	GND	166	IO33RSB0	202	GAC0/IO04RSB0
131	GCA2/IO51PSB1	167	IO32RSB0	203	GAB1/IO03RSB0
132	GCA1/IO50PDB1	168	IO31RSB0	204	GAB0/IO02RSB0
133	GCA0/IO50NDB1	169	IO30RSB0	205	GAA1/IO01RSB0
134	GCB0/IO49NDB1	170	V _{CC} B0	206	GAA0/IO00RSB0
135	GCB1/IO49PDB1	171	V _{CC}	207	GNDQ
136	GCC0/IO48NDB1	172	IO29RSB0	208	VMV0
137	GCC1/IO48PDB1	173	IO28RSB0		
138	IO47NDB1	174	IO27RSB0		
139	IO47PDB1	175	IO26RSB0		
140	V _{CC} B1	176	IO25RSB0		
141	GND	177	IO24RSB0		
142	V _{CC}	178	GND		
143	IO46RSB1	179	IO23RSB0		
144	IO45NDB1	180	IO22RSB0		

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
1	GND	37	IO141PSB3	73	IO112RSB2
2	GAA2/IO155UDB3	38	IO140PDB3	74	IO111RSB2
3	IO155VDB3	39	IO140NDB3	75	IO110RSB2
4	GAB2/IO154UDB3	40	V _{CC} B3	76	IO109RSB2
5	IO154VDB3	41	GND	77	IO108RSB2
6	GAC2/IO153UDB3	42	IO138PDB3	78	IO107RSB2
7	IO153VDB3	43	IO138NDB3	79	IO106RSB2
8	IO152UDB3	44	GEC1/IO137PDB3	80	IO104RSB2
9	IO152VDB3	45	GEC0/IO137NDB3	81	GND
10	IO151UDB3	46	GEB1/IO136PDB3	82	IO102RSB2
11	IO151VDB3	47	GEB0/IO136NDB3	83	IO101RSB2
12	IO150PDB3	48	GEA1/IO135PDB3	84	IO100RSB2
13	IO150NDB3	49	GEA0/IO135NDB3	85	IO99RSB2
14	IO149PDB3	50	VMV3	86	IO98RSB2
15	IO149NDB3	51	GNDQ	87	IO97RSB2
16	V _{CC}	52	GND	88	V _{CC}
17	GND	53	VMV2	89	V _{CC} B2
18	V _{CC} B3	54	NC	90	IO94RSB2
19	IO148PDB3	55	GEA2/IO134RSB2	91	IO92RSB2
20	IO148NDB3	56	GEB2/IO133RSB2	92	IO90RSB2
21	GFC1/IO147PDB3	57	GEC2/IO132RSB2	93	IO88RSB2
22	GFC0/IO147NDB3	58	IO131RSB2	94	IO86RSB2
23	GFB1/IO146PDB3	59	IO130RSB2	95	IO84RSB2
24	GFB0/IO146NDB3	60	IO129RSB2	96	GDC2/IO82RSB2
25	V _{CC} PLF	61	IO128RSB2	97	GND
26	GFA0/IO145NPB3	62	V _{CC} B2	98	GDB2/IO81RSB2
27	V _{CC} PLF	63	IO125RSB2	99	GDA2/IO80RSB2
28	GFA1/IO145PPB3	64	IO123RSB2	100	GNDQ
29	GND	65	GND	101	TCK
30	GFA2/IO144PDB3	66	IO121RSB2	102	TDI
31	IO144NDB3	67	IO119RSB2	103	TMS
32	GFB2/IO143PDB3	68	IO117RSB2	104	VMV2
33	IO143NDB3	69	IO115RSB2	105	GND
34	GFC2/IO142PDB3	70	IO113RSB2	106	V _{PUMP}
35	IO142NDB3	71	V _{CC}	107	NC
36	NC	72	V _{CC} B2	108	TDO

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
109	TRST	145	IO64PDB1	181	IO27RSB0
110	V _{JTAG}	146	IO63NDB1	182	IO26RSB0
111	GDA0/IO79VDB1	147	IO63PDB1	183	IO25RSB0
112	GDA1/IO79UDB1	148	IO62NDB1	184	IO24RSB0
113	GDB0/IO78VDB1	149	GBC2/IO62PDB1	185	IO23RSB0
114	GDB1/IO78UDB1	150	IO61NDB1	186	V _{CC} B0
115	GDC0/IO77VDB1	151	GBB2/IO61PDB1	187	V _{CC}
116	GDC1/IO77UDB1	152	IO60NDB1	188	IO21RSB0
117	IO76VDB1	153	GBA2/IO60PDB1	189	IO20RSB0
118	IO76UDB1	154	VMV1	190	IO19RSB0
119	IO75NDB1	155	GNDQ	191	IO18RSB0
120	IO75PDB1	156	GND	192	IO17RSB0
121	IO74RSB1	157	VMV0	193	IO16RSB0
122	GND	158	GBA1/IO59RSB0	194	IO15RSB0
123	V _{CC} B1	159	GBA0/IO58RSB0	195	GND
124	NC	160	GBB1/IO57RSB0	196	IO13RSB0
125	NC	161	GBB0/IO56RSB0	197	IO11RSB0
126	V _{CC}	162	GND	198	IO09RSB0
127	IO72NDB1	163	GBC1/IO55RSB0	199	IO07RSB0
128	GCC2/IO72PDB1	164	GBC0/IO54RSB0	200	V _{CC} B0
129	GCB2/IO71PSB1	165	IO52RSB0	201	GAC1/IO05RSB0
130	GND	166	IO49RSB0	202	GAC0/IO04RSB0
131	GCA2/IO70PSB1	167	IO46RSB0	203	GAB1/IO03RSB0
132	GCA1/IO69PDB1	168	IO43RSB0	204	GAB0/IO02RSB0
133	GCA0/IO69NDB1	169	IO40RSB0	205	GAA1/IO01RSB0
134	GCB0/IO68NDB1	170	V _{CC} B0	206	GAA0/IO00RSB0
135	GCB1/IO68PDB1	171	V _{CC}	207	GNDQ
136	GCC0/IO67NDB1	172	IO36RSB0	208	VMV0
137	GCC1/IO67PDB1	173	IO35RSB0		
138	IO66NDB1	174	IO34RSB0		
139	IO66PDB1	175	IO33RSB0		
140	V _{CC} B1	176	IO32RSB0		
141	GND	177	IO31RSB0		
142	V _{CC}	178	GND		
143	IO65RSB1	179	IO29RSB0		
144	IO64NDB1	180	IO28RSB0		

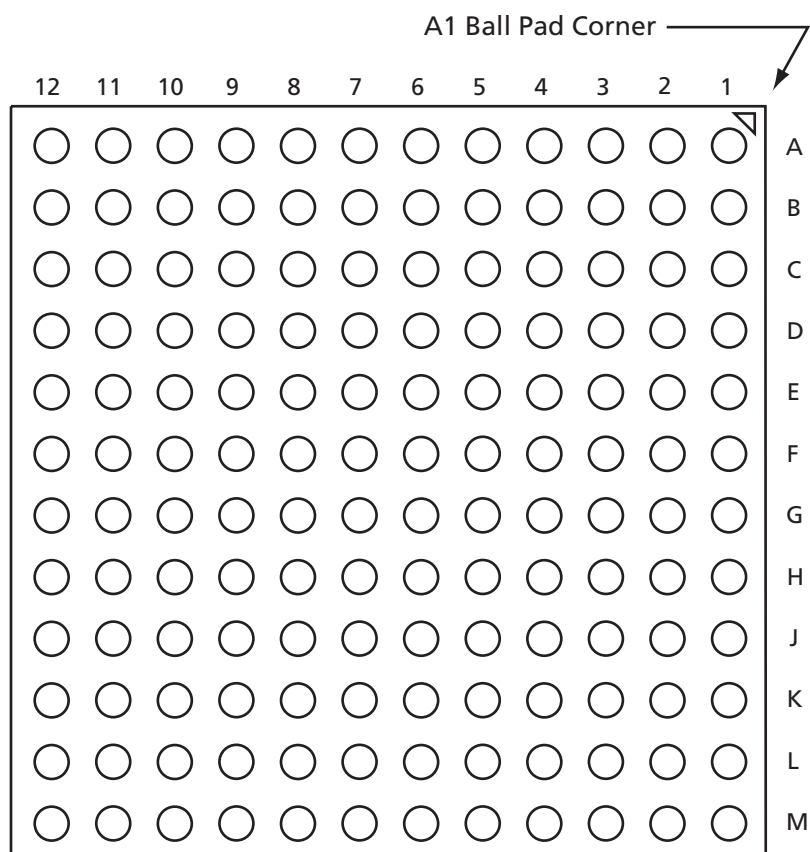
208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
1	GND	37	IO152PDB3	73	IO120RSB2
2	GAA2/IO174PDB3	38	IO152NDB3	74	IO119RSB2
3	IO174NDB3	39	IO150PSB3	75	IO118RSB2
4	GAB2/IO173PDB3	40	V _{CC} B3	76	IO117RSB2
5	IO173NDB3	41	GND	77	IO116RSB2
6	GAC2/IO172PDB3	42	IO147PDB3	78	IO115RSB2
7	IO172NDB3	43	IO147NDB3	79	IO114RSB2
8	IO171PDB3	44	GEC1/IO146PDB3	80	IO112RSB2
9	IO171NDB3	45	GEC0/IO146NDB3	81	GND
10	IO170PDB3	46	GEB1/IO145PDB3	82	IO111RSB2
11	IO170NDB3	47	GEB0/IO145NDB3	83	IO110RSB2
12	IO169PDB3	48	GEA1/IO144PDB3	84	IO109RSB2
13	IO169NDB3	49	GEA0/IO144NDB3	85	IO108RSB2
14	IO168PDB3	50	VMV3	86	IO107RSB2
15	IO168NDB3	51	GNDQ	87	IO106RSB2
16	V _{CC}	52	GND	88	V _{CC}
17	GND	53	VMV2	89	V _{CC} B2
18	V _{CC} B3	54	GEA2/IO143RSB2	90	IO104RSB2
19	IO166PDB3	55	GEB2/IO142RSB2	91	IO102RSB2
20	IO166NDB3	56	GEC2/IO141RSB2	92	IO100RSB2
21	GFC1/IO164PDB3	57	IO140RSB2	93	IO98RSB2
22	GFC0/IO164NDB3	58	IO139RSB2	94	IO96RSB2
23	GFB1/IO163PDB3	59	IO138RSB2	95	IO92RSB2
24	GFB0/IO163NDB3	60	IO137RSB2	96	GDC2/IO91RSB2
25	V _{COMPLF}	61	IO136RSB2	97	GND
26	GFA0/IO162NPB3	62	V _{CC} B2	98	GDB2/IO90RSB2
27	V _{CC} PLF	63	IO135RSB2	99	GDA2/IO89RSB2
28	GFA1/IO162PPB3	64	IO133RSB2	100	GNDQ
29	GND	65	GND	101	TCK
30	GFA2/IO161PDB3	66	IO131RSB2	102	TDI
31	IO161NDB3	67	IO129RSB2	103	TMS
32	GFB2/IO160PDB3	68	IO127RSB2	104	VMV2
33	IO160NDB3	69	IO125RSB2	105	GND
34	GFC2/IO159PDB3	70	IO123RSB2	106	V _{PUMP}
35	IO159NDB3	71	V _{CC}	107	GNDQ
36	V _{CC}	72	V _{CC} B2	108	TDO

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
109	TRST	145	IO64PDB1	181	IO27RSB0
110	V _{JTAG}	146	IO63NDB1	182	IO26RSB0
111	GDA0/IO88NDB1	147	IO63PDB1	183	IO25RSB0
112	GDA1/IO88PDB1	148	IO62NDB1	184	IO24RSB0
113	GDB0/IO87NDB1	149	GBC2/IO62PDB1	185	IO23RSB0
114	GDB1/IO87PDB1	150	IO61NDB1	186	V _{CCi} B0
115	GDC0/IO86NDB1	151	GBB2/IO61PDB1	187	V _{CC}
116	GDC1/IO86PDB1	152	IO60NDB1	188	IO20RSB0
117	IO84NDB1	153	GBA2/IO60PDB1	189	IO19RSB0
118	IO84PDB1	154	VMV1	190	IO18RSB0
119	IO82NDB1	155	GNDQ	191	IO17RSB0
120	IO82PDB1	156	GND	192	IO16RSB0
121	IO81PSB1	157	VMV0	193	IO14RSB0
122	GND	158	GBA1/IO59RSB0	194	IO12RSB0
123	V _{CCi} B1	159	GBA0/IO58RSB0	195	GND
124	IO77NDB1	160	GBB1/IO57RSB0	196	IO10RSB0
125	IO77PDB1	161	GBB0/IO56RSB0	197	IO09RSB0
126	NC	162	GND	198	IO08RSB0
127	IO74NDB1	163	GBC1/IO55RSB0	199	IO07RSB0
128	GCC2/IO74PDB1	164	GBC0/IO54RSB0	200	V _{CCi} B0
129	GCB2/IO73PSB1	165	IO52RSB0	201	GAC1/IO05RSB0
130	GND	166	IO50RSB0	202	GAC0/IO04RSB0
131	GCA2/IO72PSB1	167	IO48RSB0	203	GAB1/IO03RSB0
132	GCA1/IO71PDB1	168	IO46RSB0	204	GAB0/IO02RSB0
133	GCA0/IO71NDB1	169	IO44RSB0	205	GAA1/IO01RSB0
134	GCB0/IO70NDB1	170	V _{CCi} B0	206	GAA0/IO00RSB0
135	GCB1/IO70PDB1	171	V _{CC}	207	GNDQ
136	GCC0/IO69NDB1	172	IO36RSB0	208	VMV0
137	GCC1/IO69PDB1	173	IO35RSB0		
138	IO67NDB1	174	IO34RSB0		
139	IO67PDB1	175	IO33RSB0		
140	V _{CCi} B1	176	IO32RSB0		
141	GND	177	IO31RSB0		
142	V _{CC}	178	GND		
143	IO65PSB1	179	IO29RSB0		
144	IO64NDB1	180	IO28RSB0		

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
1	GND	37	IO199PDB3	73	IO162RSB2
2	GAA2/IO225PDB3	38	IO199NDB3	74	IO160RSB2
3	IO225NDB3	39	IO197PSB3	75	IO158RSB2
4	GAB2/IO224PDB3	40	V _{CC} B3	76	IO156RSB2
5	IO224NDB3	41	GND	77	IO154RSB2
6	GAC2/IO223PDB3	42	IO191PDB3	78	IO152RSB2
7	IO223NDB3	43	IO191NDB3	79	IO150RSB2
8	IO222PDB3	44	GEC1/IO190PDB3	80	IO148RSB2
9	IO222NDB3	45	GEC0/IO190NDB3	81	GND
10	IO220PDB3	46	GEB1/IO189PDB3	82	IO143RSB2
11	IO220NDB3	47	GEB0/IO189NDB3	83	IO141RSB2
12	IO218PDB3	48	GEA1/IO188PDB3	84	IO139RSB2
13	IO218NDB3	49	GEA0/IO188NDB3	85	IO137RSB2
14	IO216PDB3	50	VMV3	86	IO135RSB2
15	IO216NDB3	51	GNDQ	87	IO133RSB2
16	V _{CC}	52	GND	88	V _{CC}
17	GND	53	VMV2	89	V _{CC} B2
18	V _{CC} B3	54	GEA2/IO187RSB2	90	IO128RSB2
19	IO212PDB3	55	GEB2/IO186RSB2	91	IO126RSB2
20	IO212NDB3	56	GEC2/IO185RSB2	92	IO124RSB2
21	GFC1/IO209PDB3	57	IO184RSB2	93	IO122RSB2
22	GFC0/IO209NDB3	58	IO183RSB2	94	IO120RSB2
23	GFB1/IO208PDB3	59	IO182RSB2	95	IO118RSB2
24	GFB0/IO208NDB3	60	IO181RSB2	96	GDC2/IO116RSB2
25	V _{CC} PLF	61	IO180RSB2	97	GND
26	GFA0/IO207NPB3	62	V _{CC} B2	98	GDB2/IO115RSB2
27	V _{CC} PLF	63	IO178RSB2	99	GDA2/IO114RSB2
28	GFA1/IO207PPB3	64	IO176RSB2	100	GNDQ
29	GND	65	GND	101	TCK
30	GFA2/IO206PDB3	66	IO174RSB2	102	TDI
31	IO206NDB3	67	IO172RSB2	103	TMS
32	GFB2/IO205PDB3	68	IO170RSB2	104	VMV2
33	IO205NDB3	69	IO168RSB2	105	GND
34	GFC2/IO204PDB3	70	IO166RSB2	106	V _{PUMP}
35	IO204NDB3	71	V _{CC}	107	GNDQ
36	V _{CC}	72	V _{CC} B2	108	TDO

208-Pin PQFP		208-Pin PQFP		208-Pin PQFP	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
109	TRST	145	IO84PDB1	181	IO33RSB0
110	V _{JTAG}	146	IO82NDB1	182	IO31RSB0
111	GDA0/IO113NDB1	147	IO82PDB1	183	IO29RSB0
112	GDA1/IO113PDB1	148	IO80NDB1	184	IO27RSB0
113	GDB0/IO112NDB1	149	GBC2/IO80PDB1	185	IO25RSB0
114	GDB1/IO112PDB1	150	IO79NDB1	186	V _{CC} B0
115	GDC0/IO111NDB1	151	GGB2/IO79PDB1	187	V _{CC}
116	GDC1/IO111PDB1	152	IO78NDB1	188	IO22RSB0
117	IO109NDB1	153	GBA2/IO78PDB1	189	IO20RSB0
118	IO109PDB1	154	VMV1	190	IO18RSB0
119	IO106NDB1	155	GNDQ	191	IO16RSB0
120	IO106PDB1	156	GND	192	IO15RSB0
121	IO104PSB1	157	VMV0	193	IO14RSB0
122	GND	158	GBA1/IO77RSB0	194	IO13RSB0
123	V _{CC} B1	159	GBA0/IO76RSB0	195	GND
124	IO99NDB1	160	GGB1/IO75RSB0	196	IO12RSB0
125	IO99PDB1	161	GGB0/IO74RSB0	197	IO11RSB0
126	NC	162	GND	198	IO10RSB0
127	IO96NDB1	163	GBC1/IO73RSB0	199	IO09RSB0
128	GCC2/IO96PDB1	164	GBC0/IO72RSB0	200	V _{CC} B0
129	GCB2/IO95PSB1	165	IO70RSB0	201	GAC1/IO05RSB0
130	GND	166	IO67RSB0	202	GAC0/IO04RSB0
131	GCA2/IO94PSB1	167	IO63RSB0	203	GAB1/IO03RSB0
132	GCA1/IO93PDB1	168	IO60RSB0	204	GAB0/IO02RSB0
133	GCA0/IO93NDB1	169	IO57RSB0	205	GAA1/IO01RSB0
134	GCB0/IO92NDB1	170	V _{CC} B0	206	GAA0/IO00RSB0
135	GCB1/IO92PDB1	171	V _{CC}	207	GNDQ
136	GCC0/IO91NDB1	172	IO54RSB0	208	VMV0
137	GCC1/IO91PDB1	173	IO51RSB0		
138	IO88NDB1	174	IO48RSB0		
139	IO88PDB1	175	IO45RSB0		
140	V _{CC} B1	176	IO42RSB0		
141	GND	177	IO40RSB0		
142	V _{CC}	178	GND		
143	IO86PSB1	179	IO38RSB0		
144	IO84NDB1	180	IO35RSB0		

144-Pin FBGA



Note: This is the bottom view of the package.

Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

144-Pin FBGA	
Pin Number	A3P060 Function
A1	GNDQ
A2	VMV0
A3	GAB0/IO04RSB0
A4	GAB1/IO05RSB0
A5	IO08RSB0
A6	GND
A7	IO11RSB0
A8	V _{CC}
A9	IO16RSB0
A10	GBA0/IO23RSB0
A11	GBA1/IO24RSB0
A12	GNDQ
B1	GAB2/IO53RSB1
B2	GND
B3	GAA0/IO02RSB0
B4	GAA1/IO03RSB0
B5	IO00RSB0
B6	IO10RSB0
B7	IO12RSB0
B8	IO14RSB0
B9	GBB0/IO21RSB0
B10	GBB1/IO22RSB0
B11	GND
B12	VMV0
C1	IO95RSB1
C2	GFA2/IO83RSB1
C3	GAC2/IO94RSB1
C4	V _{CC}
C5	IO01RSB0
C6	IO09RSB0
C7	IO13RSB0
C8	IO15RSB0
C9	IO17RSB0
C10	GBA2/IO25RSB0
C11	IO26RSB0
C12	GBC2/IO29RSB0

144-Pin FBGA	
Pin Number	A3P060 Function
D1	IO91RSB1
D2	IO92RSB1
D3	IO93RSB1
D4	GAA2/IO51RSB1
D5	GAC0/IO06RSB0
D6	GAC1/IO07RSB0
D7	GBC0/IO19RSB0
D8	GBC1/IO20RSB0
D9	GBB2/IO27RSB0
D10	IO18RSB0
D11	IO28RSB0
D12	GCB1/IO37RSB0
E1	V _{CC}
E2	GFC0/IO88RSB1
E3	GFC1/IO89RSB1
E4	V _{CC} B1
E5	IO52RSB1
E6	V _{CC} B0
E7	V _{CC} B0
E8	GCC1/IO35RSB0
E9	V _{CC} B0
E10	V _{CC}
E11	GCA0/IO40RSB0
E12	IO30RSB0
F1	GFB0/IO86RSB1
F2	V _{COMPLF}
F3	GFB1/IO87RSB1
F4	IO90RSB1
F5	GND
F6	GND
F7	GND
F8	GCC0/IO36RSB0
F9	GCB0/IO38RSB0
F10	GND
F11	GCA1/IO39RSB0
F12	GCA2/IO41RSB0

144-Pin FBGA	
Pin Number	A3P060 Function
G1	GFA1/IO84RSB1
G2	GND
G3	V _{CC} PLF
G4	GFA0/IO85RSB1
G5	GND
G6	GND
G7	GND
G8	GDC1/IO45RSB0
G9	IO32RSB0
G10	GCC2/IO43RSB0
G11	IO31RSB0
G12	GCB2/IO42RSB0
H1	V _{CC}
H2	GFB2/IO82RSB1
H3	GFC2/IO81RSB1
H4	GEC1/IO77RSB1
H5	V _{CC}
H6	IO34RSB0
H7	IO44RSB0
H8	GDB2/IO55RSB1
H9	GDC0/IO46RSB0
H10	V _{CC} B0
H11	IO33RSB0
H12	V _{CC}
J1	GEB1/IO75RSB1
J2	IO78RSB1
J3	V _{CC} B1
J4	GEC0/IO76RSB1
J5	IO79RSB1
J6	IO80RSB1
J7	V _{CC}
J8	TCK
J9	GDA2/IO54RSB1
J10	TDO
J11	GDA1/IO49RSB0
J12	GDB1/IO47RSB0

144-Pin FBGA	
Pin Number	A3P060 Function
K1	GEB0/IO74RSB1
K2	GEA1/IO73RSB1
K3	GEA0/IO72RSB1
K4	GEA2/IO71RSB1
K5	IO65RSB1
K6	IO64RSB1
K7	GND
K8	IO57RSB1
K9	GDC2/IO56RSB1
K10	GND
K11	GDA0/IO50RSB0
K12	GDB0/IO48RSB0
L1	GND
L2	VMV1
L3	GEB2/IO70RSB1
L4	IO67RSB1
L5	V _{CC} B1
L6	IO62RSB1
L7	IO59RSB1
L8	IO58RSB1
L9	TMS
L10	V _{JTAG}
L11	VMV1
L12	TRST
M1	GNDQ
M2	GEC2/IO69RSB1
M3	IO68RSB1
M4	IO66RSB1
M5	IO63RSB1
M6	IO61RSB1
M7	IO60RSB1
M8	NC
M9	TDI
M10	V _{CC} B1
M11	V _{PUMP}
M12	GNDQ

144-Pin FBGA	
Pin Number	A3P125 Function
A1	GNDQ
A2	VMV0
A3	GAB0/IO02RSB0
A4	GAB1/IO03RSB0
A5	IO11RSB0
A6	GND
A7	IO18RSB0
A8	V _{CC}
A9	IO25RSB0
A10	GBA0/IO39RSB0
A11	GBA1/IO40RSB0
A12	GNDQ
B1	GAB2/IO69RSB1
B2	GND
B3	GAA0/IO00RSB0
B4	GAA1/IO01RSB0
B5	IO08RSB0
B6	IO14RSB0
B7	IO19RSB0
B8	IO22RSB0
B9	GBB0/IO37RSB0
B10	GBB1/IO38RSB0
B11	GND
B12	VMV0
C1	IO132RSB1
C2	GFA2/IO120RSB1
C3	GAC2/IO131RSB1
C4	V _{CC}
C5	IO10RSB0
C6	IO12RSB0
C7	IO21RSB0
C8	IO24RSB0
C9	IO27RSB0
C10	GBA2/IO41RSB0
C11	IO42RSB0
C12	GBC2/IO45RSB0

144-Pin FBGA	
Pin Number	A3P125 Function
D1	IO128RSB1
D2	IO129RSB1
D3	IO130RSB1
D4	GAA2/IO67RSB1
D5	GAC0/IO04RSB0
D6	GAC1/IO05RSB0
D7	GBC0/IO35RSB0
D8	GBC1/IO36RSB0
D9	GBB2/IO43RSB0
D10	IO28RSB0
D11	IO44RSB0
D12	GCB1/IO53RSB0
E1	V _{CC}
E2	GFC0/IO125RSB1
E3	GFC1/IO126RSB1
E4	V _{CC} B1
E5	IO68RSB1
E6	V _{CC} B0
E7	V _{CC} B0
E8	GCC1/IO51RSB0
E9	V _{CC} B0
E10	V _{CC}
E11	GCA0/IO56RSB0
E12	IO46RSB0
F1	GFB0/IO123RSB1
F2	V _{COMPLF}
F3	GFB1/IO124RSB1
F4	IO127RSB1
F5	GND
F6	GND
F7	GND
F8	GCC0/IO52RSB0
F9	GCB0/IO54RSB0
F10	GND
F11	GCA1/IO55RSB0
F12	GCA2/IO57RSB0

144-Pin FBGA	
Pin Number	A3P125 Function
G1	GFA1/IO121RSB1
G2	GND
G3	V _{CC} PLF
G4	GFA0/IO122RSB1
G5	GND
G6	GND
G7	GND
G8	GDC1/IO61RSB0
G9	IO48RSB0
G10	GCC2/IO59RSB0
G11	IO47RSB0
G12	GCB2/IO58RSB0
H1	V _{CC}
H2	GFB2/IO119RSB1
H3	GFC2/IO118RSB1
H4	GEC1/IO112RSB1
H5	V _{CC}
H6	IO50RSB0
H7	IO60RSB0
H8	GDB2/IO71RSB1
H9	GDC0/IO62RSB0
H10	V _{CC} B0
H11	IO49RSB0
H12	V _{CC}
J1	GEB1/IO110RSB1
J2	IO115RSB1
J3	V _{CC} B1
J4	GEC0/IO111RSB1
J5	IO116RSB1
J6	IO117RSB1
J7	V _{CC}
J8	TCK
J9	GDA2/IO70RSB1
J10	TDO
J11	GDA1/IO65RSB0
J12	GDB1/IO63RSB0

144-Pin FBGA	
Pin Number	A3P125 Function
K1	GEB0/IO109RSB1
K2	GEA1/IO108RSB1
K3	GEA0/IO107RSB1
K4	GEA2/IO106RSB1
K5	IO100RSB1
K6	IO98RSB1
K7	GND
K8	IO73RSB1
K9	GDC2/IO72RSB1
K10	GND
K11	GDA0/IO66RSB0
K12	GDB0/IO64RSB0
L1	GND
L2	VMV1
L3	GEB2/IO105RSB1
L4	IO102RSB1
L5	V _{CCI} B1
L6	IO95RSB1
L7	IO85RSB1
L8	IO74RSB1
L9	TMS
L10	V _{JTAG}
L11	VMV1
L12	TRST
M1	GNDQ
M2	GEC2/IO104RSB1
M3	IO103RSB1
M4	IO101RSB1
M5	IO97RSB1
M6	IO94RSB1
M7	IO86RSB1
M8	IO75RSB1
M9	TDI
M10	V _{CCI} B1
M11	V _{PUMP}
M12	GNDQ

144-Pin FBGA		144-Pin FBGA		144-Pin FBGA	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
A1	GNDQ	D1	IO112NDB3	G1	GFA1/IO108PPB3
A2	VMV0	D2	IO112PDB3	G2	GND
A3	GAB0/IO02RSB0	D3	IO116VDB3	G3	V _{CCPLF}
A4	GAB1/IO03RSB0	D4	GAA2/IO118UPB3	G4	GFA0/IO108NPB3
A5	IO16RSB0	D5	GAC0/IO04RSB0	G5	GND
A6	GND	D6	GAC1/IO05RSB0	G6	GND
A7	IO29RSB0	D7	GBC0/IO35RSB0	G7	GND
A8	V _{CC}	D8	GBC1/IO36RSB0	G8	GDC1/IO58UPB1
A9	IO33RSB0	D9	GBB2/IO42PDB1	G9	IO53NDB1
A10	GBA0/IO39RSB0	D10	IO42NDB1	G10	GCC2/IO53PDB1
A11	GBA1/IO40RSB0	D11	IO43NPB1	G11	IO52NDB1
A12	GNDQ	D12	GCB1/IO49PPB1	G12	GCB2/IO52PDB1
B1	GAB2/IO117UDB3	E1	V _{CC}	H1	V _{CC}
B2	GND	E2	GFC0/IO110NDB3	H2	GFB2/IO106PDB3
B3	GAA0/IO00RSB0	E3	GFC1/IO110PDB3	H3	GFC2/IO105PSB3
B4	GAA1/IO01RSB0	E4	V _{CC1} B3	H4	GEC1/IO100PDB3
B5	IO14RSB0	E5	IO118VPB3	H5	V _{CC}
B6	IO19RSB0	E6	V _{CC1} B0	H6	IO79RSB2
B7	IO22RSB0	E7	V _{CC1} B0	H7	IO65RSB2
B8	IO30RSB0	E8	GCC1/IO48PDB1	H8	GDB2/IO62RSB2
B9	GBB0/IO37RSB0	E9	V _{CC1} B1	H9	GDC0/IO58VPB1
B10	GBB1/IO38RSB0	E10	V _{CC}	H10	V _{CC1} B1
B11	GND	E11	GCA0/IO50NDB1	H11	IO54PSB1
B12	VMV1	E12	IO51NDB1	H12	V _{CC}
C1	IO117VDB3	F1	GFB0/IO109NPB3	J1	GEB1/IO99PDB3
C2	GFA2/IO107PPB3	F2	V _{COMPLF}	J2	IO106NDB3
C3	GAC2/IO116UDB3	F3	GFB1/IO109PPB3	J3	V _{CC1} B3
C4	V _{CC}	F4	IO107NPB3	J4	GEC0/IO100NDB3
C5	IO12RSB0	F5	GND	J5	IO88RSB2
C6	IO17RSB0	F6	GND	J6	IO81RSB2
C7	IO24RSB0	F7	GND	J7	V _{CC}
C8	IO31RSB0	F8	GCC0/IO48NDB1	J8	TCK
C9	IO34RSB0	F9	GCB0/IO49NPB1	J9	GDA2/IO61RSB2
C10	GBA2/IO41PDB1	F10	GND	J10	TDO
C11	IO41NDB1	F11	GCA1/IO50PDB1	J11	GDA1/IO60UDB1
C12	GBC2/IO43PPB1	F12	GCA2/IO51PDB1	J12	GDB1/IO59UDB1

144-Pin FBGA	
Pin Number	A3P250 Function
K1	GEB0/IO99NDB3
K2	GEA1/IO98PDB3
K3	GEA0/IO98NDB3
K4	GEA2/IO97RSB2
K5	IO90RSB2
K6	IO84RSB2
K7	GND
K8	IO66RSB2
K9	GDC2/IO63RSB2
K10	GND
K11	GDA0/IO60VDB1
K12	GDB0/IO59VDB1
L1	GND
L2	VMV3
L3	GEB2/IO96RSB2
L4	IO91RSB2
L5	V _{CC} I B2
L6	IO82RSB2
L7	IO80RSB2
L8	IO72RSB2
L9	TMS
L10	V _{JTAG}
L11	VMV2
L12	TRST
M1	GNDQ
M2	GEC2/IO95RSB2
M3	IO92RSB2
M4	IO89RSB2
M5	IO87RSB2
M6	IO85RSB2
M7	IO78RSB2
M8	IO76RSB2
M9	TDI
M10	V _{CC} I B2
M11	V _{PUMP}
M12	GNDQ

144-Pin FBGA		144-Pin FBGA		144-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
A1	GNDQ	D1	IO149NDB3	G1	GFA1/IO145PPB3
A2	VMV0	D2	IO149PDB3	G2	GND
A3	GAB0/IO02RSB0	D3	IO153VDB3	G3	V _{CCPLF}
A4	GAB1/IO03RSB0	D4	GAA2/IO155UPB3	G4	GFA0/IO145NPB3
A5	IO16RSB0	D5	GAC0/IO04RSB0	G5	GND
A6	GND	D6	GAC1/IO05RSB0	G6	GND
A7	IO30RSB0	D7	GBC0/IO54RSB0	G7	GND
A8	V _{CC}	D8	GBC1/IO55RSB0	G8	GDC1/IO77UPB1
A9	IO34RSB0	D9	GBB2/IO61PDB1	G9	IO72NDB1
A10	GBA0/IO58RSB0	D10	IO61NDB1	G10	GCC2/IO72PDB1
A11	GBA1/IO59RSB0	D11	IO62NPB1	G11	IO71NDB1
A12	GNDQ	D12	GCB1/IO68PPB1	G12	GCB2/IO71PDB1
B1	GAB2/IO154UDB3	E1	V _{CC}	H1	V _{CC}
B2	GND	E2	GFC0/IO147NDB3	H2	GFB2/IO143PDB3
B3	GAA0/IO00RSB0	E3	GFC1/IO147PDB3	H3	GFC2/IO142PSB3
B4	GAA1/IO01RSB0	E4	V _{CC} B3	H4	GEC1/IO137PDB3
B5	IO14RSB0	E5	IO155VPB3	H5	V _{CC}
B6	IO19RSB0	E6	V _{CC} B0	H6	IO75PDB1
B7	IO23RSB0	E7	V _{CC} B0	H7	IO75NDB1
B8	IO31RSB0	E8	GCC1/IO67PDB1	H8	GDB2/IO81RSB2
B9	GBB0/IO56RSB0	E9	V _{CC} B1	H9	GDC0/IO77VPB1
B10	GBB1/IO57RSB0	E10	V _{CC}	H10	V _{CC} B1
B11	GND	E11	GCA0/IO69NDB1	H11	IO73PSB1
B12	VMV1	E12	IO70NDB1	H12	V _{CC}
C1	IO154VDB3	F1	GFB0/IO146NPB3	J1	GEB1/IO136PDB3
C2	GFA2/IO144PPB3	F2	V _{CCOMPLF}	J2	IO143NDB3
C3	GAC2/IO153UDB3	F3	GFB1/IO146PPB3	J3	V _{CC} B3
C4	V _{CC}	F4	IO144NPB3	J4	GEC0/IO137NDB3
C5	IO12RSB0	F5	GND	J5	IO125RSB2
C6	IO17RSB0	F6	GND	J6	IO116RSB2
C7	IO25RSB0	F7	GND	J7	V _{CC}
C8	IO32RSB0	F8	GCC0/IO67NDB1	J8	TCK
C9	IO53RSB0	F9	GCB0/IO68NPB1	J9	GDA2/IO80RSB2
C10	GBA2/IO60PDB1	F10	GND	J10	TDO
C11	IO60NDB1	F11	GCA1/IO69PDB1	J11	GDA1/IO79UDB1
C12	GBC2/IO62PPB1	F12	GCA2/IO70PDB1	J12	GDB1/IO78UDB1

144-Pin FBGA	
Pin Number	A3P400 Function
K1	GEB0/IO136NDB3
K2	GEA1/IO135PDB3
K3	GEA0/IO135NDB3
K4	GEA2/IO134RSB2
K5	IO127RSB2
K6	IO121RSB2
K7	GND
K8	IO104RSB2
K9	GDC2/IO82RSB2
K10	GND
K11	GDA0/IO79VDB1
K12	GDB0/IO78VDB1
L1	GND
L2	VMV3
L3	GEB2/IO133RSB2
L4	IO128RSB2
L5	V _{CC} B2
L6	IO119RSB2
L7	IO114RSB2
L8	IO110RSB2
L9	TMS
L10	V _{JTAG}
L11	VMV2
L12	TRST
M1	GNDQ
M2	GEC2/IO132RSB2
M3	IO129RSB2
M4	IO126RSB2
M5	IO124RSB2
M6	IO122RSB2
M7	IO117RSB2
M8	IO115RSB2
M9	TDI
M10	V _{CC} B2
M11	V _{PUMP}
M12	GNDQ

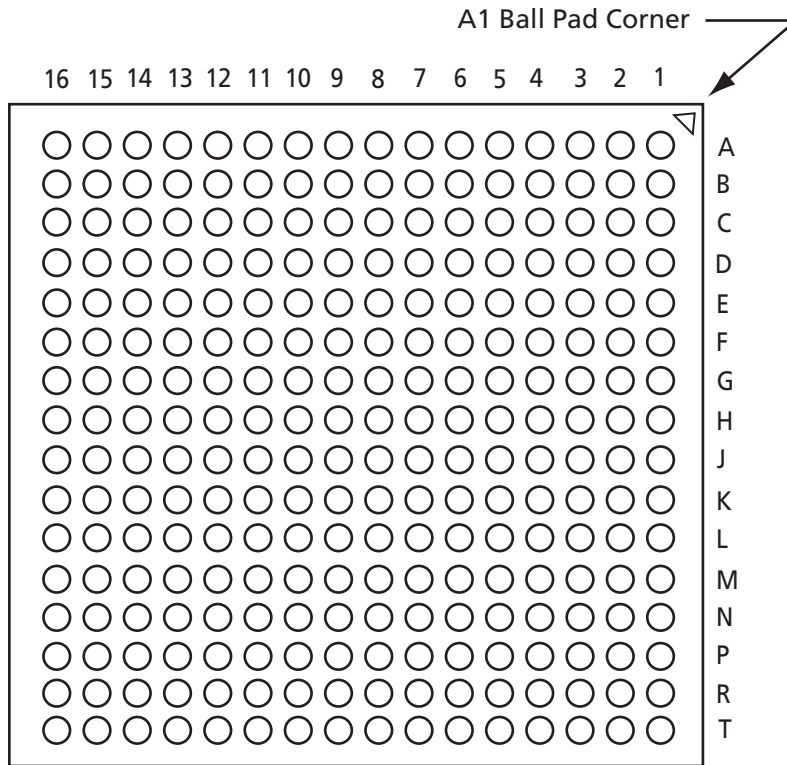
144-Pin FBGA		144-Pin FBGA		144-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
A1	GNDQ	D1	IO169PDB3	G1	GFA1/IO162PPB3
A2	VMV0	D2	IO169NDB3	G2	GND
A3	GAB0/IO02RSB0	D3	IO172NDB3	G3	V _{CCPLF}
A4	GAB1/IO03RSB0	D4	GAA2/IO174PPB3	G4	GFA0/IO162NPB3
A5	IO10RSB0	D5	GAC0/IO04RSB0	G5	GND
A6	GND	D6	GAC1/IO05RSB0	G6	GND
A7	IO34RSB0	D7	GBC0/IO54RSB0	G7	GND
A8	V _{CC}	D8	GBC1/IO55RSB0	G8	GDC1/IO86PPB1
A9	IO50RSB0	D9	GBB2/IO61PDB1	G9	IO74NDB1
A10	GBA0/IO58RSB0	D10	IO61NDB1	G10	GCC2/IO74PDB1
A11	GBA1/IO59RSB0	D11	IO62NPB1	G11	IO73NDB1
A12	GNDQ	D12	GCB1/IO70PPB1	G12	GCB2/IO73PDB1
B1	GAB2/IO173PDB3	E1	V _{CC}	H1	V _{CC}
B2	GND	E2	GFC0/IO164NDB3	H2	GFB2/IO160PDB3
B3	GAA0/IO00RSB0	E3	GFC1/IO164PDB3	H3	GFC2/IO159PSB3
B4	GAA1/IO01RSB0	E4	V _{CC} B3	H4	GEC1/IO146PDB3
B5	IO13RSB0	E5	IO174NPB3	H5	V _{CC}
B6	IO19RSB0	E6	V _{CC} B0	H6	IO80PDB1
B7	IO31RSB0	E7	V _{CC} B0	H7	IO80NDB1
B8	IO39RSB0	E8	GCC1/IO69PDB1	H8	GDB2/IO90RSB2
B9	GBB0/IO56RSB0	E9	V _{CC} B1	H9	GDC0/IO86NPB1
B10	GBB1/IO57RSB0	E10	V _{CC}	H10	V _{CC} B1
B11	GND	E11	GCA0/IO71NDB1	H11	IO84PSB1
B12	VMV1	E12	IO72NDB1	H12	V _{CC}
C1	IO173NDB3	F1	GFB0/IO163NPB3	J1	GEB1/IO145PDB3
C2	GFA2/IO161PPB3	F2	V _{COMPLF}	J2	IO160NDB3
C3	GAC2/IO172PDB3	F3	GFB1/IO163PPB3	J3	V _{CC} B3
C4	V _{CC}	F4	IO161NPB3	J4	GEC0/IO146NDB3
C5	IO16RSB0	F5	GND	J5	IO129RSB2
C6	IO25RSB0	F6	GND	J6	IO131RSB2
C7	IO28RSB0	F7	GND	J7	V _{CC}
C8	IO42RSB0	F8	GCC0/IO69NDB1	J8	TCK
C9	IO45RSB0	F9	GCB0/IO70NPB1	J9	GDA2/IO89RSB2
C10	GBA2/IO60PDB1	F10	GND	J10	TDO
C11	IO60NDB1	F11	GCA1/IO71PDB1	J11	GDA1/IO88PDB1
C12	GBC2/IO62PPB1	F12	GCA2/IO72PDB1	J12	GDB1/IO87PDB1

144-Pin FBGA	
Pin Number	A3P600 Function
K1	GEB0/IO145NDB3
K2	GEA1/IO144PDB3
K3	GEA0/IO144NDB3
K4	GEA2/IO143RSB2
K5	IO119RSB2
K6	IO111RSB2
K7	GND
K8	IO94RSB2
K9	GDC2/IO91RSB2
K10	GND
K11	GDA0/IO88NDB1
K12	GDB0/IO87NDB1
L1	GND
L2	VMV3
L3	GEB2/IO142RSB2
L4	IO136RSB2
L5	V _{CC} B2
L6	IO115RSB2
L7	IO103RSB2
L8	IO97RSB2
L9	TMS
L10	V _{JTAG}
L11	VMV2
L12	TRST
M1	GNDQ
M2	GEC2/IO141RSB2
M3	IO138RSB2
M4	IO123RSB2
M5	IO126RSB2
M6	IO134RSB2
M7	IO108RSB2
M8	IO99RSB2
M9	TDI
M10	V _{CC} B2
M11	V _{PUMP}
M12	GNDQ

144-Pin FBGA		144-Pin FBGA		144-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
A1	GNDQ	D1	IO213PDB3	G1	GFA1/IO207PPB3
A2	VMV0	D2	IO213NDB3	G2	GND
A3	GAB0/IO02RSB0	D3	IO223NDB3	G3	V _{CCPLF}
A4	GAB1/IO03RSB0	D4	GAA2/IO225PPB3	G4	GFA0/IO207NPB3
A5	IO10RSB0	D5	GAC0/IO04RSB0	G5	GND
A6	GND	D6	GAC1/IO05RSB0	G6	GND
A7	IO44RSB0	D7	GBC0/IO72RSB0	G7	GND
A8	V _{CC}	D8	GBC1/IO73RSB0	G8	GDC1/IO111PPB1
A9	IO69RSB0	D9	GBB2/IO79PDB1	G9	IO96NDB1
A10	GBA0/IO76RSB0	D10	IO79NDB1	G10	GCC2/IO96PDB1
A11	GBA1/IO77RSB0	D11	IO80NPB1	G11	IO95NDB1
A12	GNDQ	D12	GCB1/IO92PPB1	G12	GCB2/IO95PDB1
B1	GAB2/IO224PDB3	E1	V _{CC}	H1	V _{CC}
B2	GND	E2	GFC0/IO209NDB3	H2	GFB2/IO205PDB3
B3	GAA0/IO00RSB0	E3	GFC1/IO209PDB3	H3	GFC2/IO204PSB3
B4	GAA1/IO01RSB0	E4	VCCIB3	H4	GEC1/IO190PDB3
B5	IO13RSB0	E5	IO225NPB3	H5	V _{CC}
B6	IO26RSB0	E6	V _{CC} B0	H6	IO105PDB1
B7	IO35RSB0	E7	V _{CC} B0	H7	IO105NDB1
B8	IO60RSB0	E8	GCC1/IO91PDB1	H8	GDB2/IO115RSB2
B9	GBB0/IO74RSB0	E9	V _{CC} B1	H9	GDC0/IO111NPB1
B10	GBB1/IO75RSB0	E10	V _{CC}	H10	V _{CC} B1
B11	GND	E11	GCA0/IO93NDB1	H11	IO101PSB1
B12	VMV1	E12	IO94NDB1	H12	V _{CC}
C1	IO224NDB3	F1	GFB0/IO208NPB3	J1	GEB1/IO189PDB3
C2	GFA2/IO206PPB3	F2	V _{COMPLF}	J2	IO205NDB3
C3	GAC2/IO223PDB3	F3	GFB1/IO208PPB3	J3	V _{CC} B3
C4	V _{CC}	F4	IO206NPB3	J4	GEC0/IO190NDB3
C5	IO16RSB0	F5	GND	J5	IO160RSB2
C6	IO29RSB0	F6	GND	J6	IO157RSB2
C7	IO32RSB0	F7	GND	J7	V _{CC}
C8	IO63RSB0	F8	GCC0/IO91NDB1	J8	TCK
C9	IO66RSB0	F9	GCB0/IO92NPB1	J9	GDA2/IO114RSB2
C10	GBA2/IO78PDB1	F10	GND	J10	TDO
C11	IO78NDB1	F11	GCA1/IO93PDB1	J11	GDA1/IO113PDB1
C12	GBC2/IO80PPB1	F12	GCA2/IO94PDB1	J12	GDB1/IO112PDB1

144-Pin FBGA	
Pin Number	A3P1000 Function
K1	GEB0/IO189NDB3
K2	GEA1/IO188PDB3
K3	GEA0/IO188NDB3
K4	GEA2/IO187RSB2
K5	IO169RSB2
K6	IO152RSB2
K7	GND
K8	IO117RSB2
K9	GDC2/IO116RSB2
K10	GND
K11	GDA0/IO113NDB1
K12	GDB0/IO112NDB1
L1	GND
L2	VMV3
L3	GEB2/IO186RSB2
L4	IO172RSB2
L5	V _{CC} B2
L6	IO153RSB2
L7	IO144RSB2
L8	IO140RSB2
L9	TMS
L10	V _{JTAG}
L11	VMV2
L12	TRST
M1	GNDQ
M2	GEC2/IO185RSB2
M3	IO173RSB2
M4	IO168RSB2
M5	IO161RSB2
M6	IO156RSB2
M7	IO145RSB2
M8	IO141RSB2
M9	TDI
M10	V _{CC} B2
M11	V _{PUMP}
M12	GNDQ

256-Pin FBGA



Note: This is the bottom view of the package.

Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
A1	GND	C5	GAC0/IO04RSB0	E9	IO24RSB0
A2	GAA0/IO00RSB0	C6	GAC1/IO05RSB0	E10	V _{CC} B0
A3	GAA1/IO01RSB0	C7	IO13RSB0	E11	V _{CC} B0
A4	GAB0/IO02RSB0	C8	IO17RSB0	E12	VMV1
A5	IO07RSB0	C9	IO22RSB0	E13	GBC2/IO43PDB1
A6	IO10RSB0	C10	IO27RSB0	E14	IO46RSB1
A7	IO11RSB0	C11	IO31RSB0	E15	NC
A8	IO15RSB0	C12	GBC0/IO35RSB0	E16	IO45PDB1
A9	IO20RSB0	C13	IO34RSB0	F1	IO113NDB3
A10	IO25RSB0	C14	NC	F2	IO112PPB3
A11	IO29RSB0	C15	IO42NPB1	F3	NC
A12	IO33RSB0	C16	IO44PDB1	F4	IO115VDB3
A13	GBB1/IO38RSB0	D1	IO114VDB3	F5	V _{CC} B3
A14	GBA0/IO39RSB0	D2	IO114UDB3	F6	GND
A15	GBA1/IO40RSB0	D3	GAC2/IO116UDB3	F7	V _{CC}
A16	GND	D4	NC	F8	V _{CC}
B1	GAB2/IO117UDB3	D5	GNDQ	F9	V _{CC}
B2	GAA2/IO118UDB3	D6	IO08RSB0	F10	V _{CC}
B3	NC	D7	IO14RSB0	F11	GND
B4	GAB1/IO03RSB0	D8	IO18RSB0	F12	V _{CC} B1
B5	IO06RSB0	D9	IO23RSB0	F13	IO43NDB1
B6	IO09RSB0	D10	IO28RSB0	F14	NC
B7	IO12RSB0	D11	IO32RSB0	F15	IO47PPB1
B8	IO16RSB0	D12	GNDQ	F16	IO45NDB1
B9	IO21RSB0	D13	NC	G1	IO111NDB3
B10	IO26RSB0	D14	GBB2/IO42PPB1	G2	IO111PDB3
B11	IO30RSB0	D15	NC	G3	IO112NPB3
B12	GBC1/IO36RSB0	D16	IO44NDB1	G4	GFC1/IO110PPB3
B13	GBB0/IO37RSB0	E1	IO113PDB3	G5	V _{CC} B3
B14	NC	E2	NC	G6	V _{CC}
B15	GBA2/IO41PDB1	E3	IO116VDB3	G7	GND
B16	IO41NDB1	E4	IO115UDB3	G8	GND
C1	IO117VDB3	E5	VMV0	G9	GND
C2	IO118VDB3	E6	V _{CC} B0	G10	GND
C3	NC	E7	V _{CC} B0	G11	V _{CC}
C4	NC	E8	IO19RSB0	G12	V _{CC} B1

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P250 Function	Pin Number	A3P250 Function	Pin Number	A3P250 Function
G13	GCC1/IO48PPB1	K1	GFC2/IO105PDB3	M5	VMV3
G14	IO47NPB1	K2	IO107NPB3	M6	V _{CC} B2
G15	IO54PDB1	K3	IO104PPB3	M7	V _{CC} B2
G16	IO54NDB1	K4	NC	M8	NC
H1	GFB0/IO109NPB3	K5	V _{CC} B3	M9	IO74RSB2
H2	GFA0/IO108NDB3	K6	V _{CC}	M10	V _{CC} B2
H3	GFB1/IO109PPB3	K7	GND	M11	V _{CC} B2
H4	V _{COMPLF}	K8	GND	M12	VMV2
H5	GFC0/IO110NPB3	K9	GND	M13	NC
H6	V _{CC}	K10	GND	M14	GDB1/IO59UPB1
H7	GND	K11	V _{CC}	M15	GDC1/IO58UDB1
H8	GND	K12	V _{CC} B1	M16	IO56NDB1
H9	GND	K13	IO52NPB1	N1	IO103NDB3
H10	GND	K14	IO55RSB1	N2	IO101PPB3
H11	V _{CC}	K15	IO53NPB1	N3	GEC1/IO100PPB3
H12	GCC0/IO48NPB1	K16	IO51NDB1	N4	NC
H13	GCB1/IO49PPB1	L1	IO105NDB3	N5	GNDQ
H14	GCA0/IO50NPB1	L2	IO104NPB3	N6	GEA2/IO97RSB2
H15	NC	L3	NC	N7	IO86RSB2
H16	GCB0/IO49NPB1	L4	IO102RSB3	N8	IO82RSB2
J1	GFA2/IO107PPB3	L5	V _{CC} B3	N9	IO75RSB2
J2	GFA1/IO108PDB3	L6	GND	N10	IO69RSB2
J3	V _{CC} PLF	L7	V _{CC}	N11	IO64RSB2
J4	IO106NDB3	L8	V _{CC}	N12	GNDQ
J5	GFB2/IO106PDB3	L9	V _{CC}	N13	NC
J6	V _{CC}	L10	V _{CC}	N14	V _{JTAG}
J7	GND	L11	GND	N15	GDC0/IO58VDB1
J8	GND	L12	V _{CC} B1	N16	GDA1/IO60UDB1
J9	GND	L13	GDB0/IO59VPB1	P1	GEB1/IO99PDB3
J10	GND	L14	IO57VDB1	P2	GEB0/IO99NDB3
J11	V _{CC}	L15	IO57UDB1	P3	NC
J12	GCB2/IO52PPB1	L16	IO56PDB1	P4	NC
J13	GCA1/IO50PPB1	M1	IO103PDB3	P5	IO92RSB2
J14	GCC2/IO53PPB1	M2	NC	P6	IO89RSB2
J15	NC	M3	IO101NPB3	P7	IO85RSB2
J16	GCA2/IO51PDB1	M4	GEC0/IO100NPB3	P8	IO81RSB2

256-Pin FBGA	
Pin Number	A3P250 Function
P9	IO76RSB2
P10	IO71RSB2
P11	IO66RSB2
P12	NC
P13	TCK
P14	V _{PUMP}
P15	TRST
P16	GDA0/IO60VDB1
R1	GEA1/IO98PDB3
R2	GEA0/IO98NDB3
R3	NC
R4	GEC2/IO95RSB2
R5	IO91RSB2
R6	IO88RSB2
R7	IO84RSB2
R8	IO80RSB2
R9	IO77RSB2
R10	IO72RSB2
R11	IO68RSB2
R12	IO65RSB2
R13	GDB2/IO62RSB2
R14	TDI
R15	NC
R16	TDO
T1	GND
T2	IO94RSB2
T3	GEB2/IO96RSB2
T4	IO93RSB2
T5	IO90RSB2
T6	IO87RSB2
T7	IO83RSB2
T8	IO79RSB2
T9	IO78RSB2
T10	IO73RSB2
T11	IO70RSB2
T12	GDC2/IO63RSB2

256-Pin FBGA	
Pin Number	A3P250 Function
T13	IO67RSB2
T14	GDA2/IO61RSB2
T15	TMS
T16	GND

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
A1	GND	C5	GAC0/IO04RSB0	E9	IO31RSB0
A2	GAA0/IO00RSB0	C6	GAC1/IO05RSB0	E10	V _{CC} B0
A3	GAA1/IO01RSB0	C7	IO20RSB0	E11	V _{CC} B0
A4	GAB0/IO02RSB0	C8	IO24RSB0	E12	VMV1
A5	IO16RSB0	C9	IO33RSB0	E13	GBC2/IO62PDB1
A6	IO17RSB0	C10	IO39RSB0	E14	IO65RSB1
A7	IO22RSB0	C11	IO45RSB0	E15	IO52RSB0
A8	IO28RSB0	C12	GBC0/IO54RSB0	E16	IO66PDB1
A9	IO34RSB0	C13	IO48RSB0	F1	IO150NDB3
A10	IO37RSB0	C14	VMV0	F2	IO149NPB3
A11	IO41RSB0	C15	IO61NPB1	F3	IO09RSB0
A12	IO43RSB0	C16	IO63PDB1	F4	IO152UDB3
A13	GBB1/IO57RSB0	D1	IO151VDB3	F5	V _{CC} B3
A14	GBA0/IO58RSB0	D2	IO151UDB3	F6	GND
A15	GBA1/IO59RSB0	D3	GAC2/IO153UDB3	F7	V _{CC}
A16	GND	D4	IO06RSB0	F8	V _{CC}
B1	GAB2/IO154UDB3	D5	GNDQ	F9	V _{CC}
B2	GAA2/IO155UDB3	D6	IO10RSB0	F10	V _{CC}
B3	IO12RSB0	D7	IO19RSB0	F11	GND
B4	GAB1/IO03RSB0	D8	IO26RSB0	F12	V _{CC} B1
B5	IO13RSB0	D9	IO30RSB0	F13	IO62NDB1
B6	IO14RSB0	D10	IO40RSB0	F14	IO49RSB0
B7	IO21RSB0	D11	IO46RSB0	F15	IO64PPB1
B8	IO27RSB0	D12	GNDQ	F16	IO66NDB1
B9	IO32RSB0	D13	IO47RSB0	G1	IO148NDB3
B10	IO38RSB0	D14	GBB2/IO61PPB1	G2	IO148PDB3
B11	IO42RSB0	D15	IO53RSB0	G3	IO149PPB3
B12	GBC1/IO55RSB0	D16	IO63NDB1	G4	GFC1/IO147PPB3
B13	GBB0/IO56RSB0	E1	IO150PDB3	G5	V _{CC} B3
B14	IO44RSB0	E2	IO08RSB0	G6	V _{CC}
B15	GBA2/IO60PDB1	E3	IO153VDB3	G7	GND
B16	IO60NDB1	E4	IO152VDB3	G8	GND
C1	IO154VDB3	E5	VMV0	G9	GND
C2	IO155VDB3	E6	V _{CC} B0	G10	GND
C3	IO11RSB0	E7	V _{CC} B0	G11	V _{CC}
C4	IO07RSB0	E8	IO25RSB0	G12	V _{CC} B1

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
G13	GCC1/IO67PPB1	K1	GFC2/IO142PDB3	M5	VMV3
G14	IO64NPB1	K2	IO144NPB3	M6	V _{CC} B2
G15	IO73PDB1	K3	IO141PPB3	M7	V _{CC} B2
G16	IO73NDB1	K4	IO120RSB2	M8	IO108RSB2
H1	GFB0/IO146NPB3	K5	V _{CC} B3	M9	IO101RSB2
H2	GFA0/IO145NDB3	K6	V _{CC}	M10	V _{CC} B2
H3	GFB1/IO146PPB3	K7	GND	M11	V _{CC} B2
H4	V _{COMPLF}	K8	GND	M12	VMV2
H5	GFC0/IO147NPB3	K9	GND	M13	IO83RSB2
H6	V _{CC}	K10	GND	M14	GDB1/IO78UPB1
H7	GND	K11	V _{CC}	M15	GDC1/IO77UDB1
H8	GND	K12	V _{CC} B1	M16	IO75NDB1
H9	GND	K13	IO71NPB1	N1	IO140NDB3
H10	GND	K14	IO74RSB1	N2	IO138PPB3
H11	V _{CC}	K15	IO72NPB1	N3	GEC1/IO137PPB3
H12	GCC0/IO67NPB1	K16	IO70NDB1	N4	IO131RSB2
H13	GCB1/IO68PPB1	L1	IO142NDB3	N5	GNDQ
H14	GCA0/IO69NPB1	L2	IO141NPB3	N6	GEA2/IO134RSB2
H15	NC	L3	IO125RSB2	N7	IO117RSB2
H16	GCB0/IO68NPB1	L4	IO139RSB3	N8	IO111RSB2
J1	GFA2/IO144PPB3	L5	V _{CC} B3	N9	IO99RSB2
J2	GFA1/IO145PDB3	L6	GND	N10	IO94RSB2
J3	V _{CC} PLF	L7	V _{CC}	N11	IO87RSB2
J4	IO143NDB3	L8	V _{CC}	N12	GNDQ
J5	GFB2/IO143PDB3	L9	V _{CC}	N13	IO93RSB2
J6	V _{CC}	L10	V _{CC}	N14	V _{JTAG}
J7	GND	L11	GND	N15	GDC0/IO77VDB1
J8	GND	L12	V _{CC} B1	N16	GDA1/IO79UDB1
J9	GND	L13	GDB0/IO78VPB1	P1	GEB1/IO136PDB3
J10	GND	L14	IO76VDB1	P2	GEB0/IO136NDB3
J11	V _{CC}	L15	IO76UDB1	P3	VMV2
J12	GCB2/IO71PPB1	L16	IO75PDB1	P4	IO129RSB2
J13	GCA1/IO69PPB1	M1	IO140PDB3	P5	IO128RSB2
J14	GCC2/IO72PPB1	M2	IO130RSB2	P6	IO122RSB2
J15	NC	M3	IO138NPB3	P7	IO115RSB2
J16	GCA2/IO70PDB1	M4	GEC0/IO137NPB3	P8	IO110RSB2

256-Pin FBGA	
Pin Number	A3P400 Function
P9	IO98RSB2
P10	IO95RSB2
P11	IO88RSB2
P12	IO84RSB2
P13	TCK
P14	V _{PUMP}
P15	TRST
P16	GDA0/IO79VDB1
R1	GEA1/IO135PDB3
R2	GEA0/IO135NDB3
R3	IO127RSB2
R4	GEC2/IO132RSB2
R5	IO123RSB2
R6	IO118RSB2
R7	IO112RSB2
R8	IO106RSB2
R9	IO100RSB2
R10	IO96RSB2
R11	IO89RSB2
R12	IO85RSB2
R13	GDB2/IO81RSB2
R14	TDI
R15	NC
R16	TDO
T1	GND
T2	IO126RSB2
T3	GEB2/IO133RSB2
T4	IO124RSB2
T5	IO116RSB2
T6	IO113RSB2
T7	IO107RSB2
T8	IO105RSB2
T9	IO102RSB2
T10	IO97RSB2
T11	IO92RSB2
T12	GDC2/IO82RSB2

256-Pin FBGA	
Pin Number	A3P400 Function
T13	IO86RSB2
T14	GDA2/IO80RSB2
T15	TMS
T16	GND

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
A1	GND	C5	GAC0/IO04RSB0	E9	IO31RSB0
A2	GAA0/IO00RSB0	C6	GAC1/IO05RSB0	E10	V _{CC} B0
A3	GAA1/IO01RSB0	C7	IO20RSB0	E11	V _{CC} B0
A4	GAB0/IO02RSB0	C8	IO24RSB0	E12	VMV1
A5	IO11RSB0	C9	IO33RSB0	E13	GBC2/IO62PDB1
A6	IO16RSB0	C10	IO39RSB0	E14	IO67PPB1
A7	IO18RSB0	C11	IO44RSB0	E15	IO64PPB1
A8	IO28RSB0	C12	GBC0/IO54RSB0	E16	IO66PDB1
A9	IO34RSB0	C13	IO51RSB0	F1	IO166NDB3
A10	IO37RSB0	C14	VMV0	F2	IO168NPB3
A11	IO41RSB0	C15	IO61NPB1	F3	IO167PPB3
A12	IO43RSB0	C16	IO63PDB1	F4	IO169PDB3
A13	GBB1/IO57RSB0	D1	IO171NDB3	F5	V _{CC} B3
A14	GBA0/IO58RSB0	D2	IO171PDB3	F6	GND
A15	GBA1/IO59RSB0	D3	GAC2/IO172PDB3	F7	V _{CC}
A16	GND	D4	IO06RSB0	F8	V _{CC}
B1	GAB2/IO173PDB3	D5	GNDQ	F9	V _{CC}
B2	GAA2/IO174PDB3	D6	IO10RSB0	F10	V _{CC}
B3	GNDQ	D7	IO19RSB0	F11	GND
B4	GAB1/IO03RSB0	D8	IO26RSB0	F12	V _{CC} B1
B5	IO13RSB0	D9	IO30RSB0	F13	IO62NDB1
B6	IO14RSB0	D10	IO40RSB0	F14	IO64NPB1
B7	IO21RSB0	D11	IO45RSB0	F15	IO65PPB1
B8	IO27RSB0	D12	GNDQ	F16	IO66NDB1
B9	IO32RSB0	D13	IO50RSB0	G1	IO165NDB3
B10	IO38RSB0	D14	GBB2/IO61PPB1	G2	IO165PDB3
B11	IO42RSB0	D15	IO53RSB0	G3	IO168PPB3
B12	GBC1/IO55RSB0	D16	IO63NDB1	G4	GFC1/IO164PPB3
B13	GBB0/IO56RSB0	E1	IO166PDB3	G5	V _{CC} B3
B14	IO52RSB0	E2	IO167NPB3	G6	V _{CC}
B15	GBA2/IO60PDB1	E3	IO172NDB3	G7	GND
B16	IO60NDB1	E4	IO169NDB3	G8	GND
C1	IO173NDB3	E5	VMV0	G9	GND
C2	IO174NDB3	E6	V _{CC} B0	G10	GND
C3	VMV3	E7	V _{CC} B0	G11	V _{CC}
C4	IO07RSB0	E8	IO25RSB0	G12	V _{CC} B1

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
G13	GCC1/IO69PPB1	K1	GFC2/IO159PDB3	M5	VMV3
G14	IO65NPB1	K2	IO161NPB3	M6	V _{CC} B2
G15	IO75PDB1	K3	IO156PPB3	M7	V _{CC} B2
G16	IO75NDB1	K4	IO129RSB2	M8	IO117RSB2
H1	GFB0/IO163NPB3	K5	V _{CC} B3	M9	IO110RSB2
H2	GFA0/IO162NDB3	K6	V _{CC}	M10	V _{CC} B2
H3	GFB1/IO163PPB3	K7	GND	M11	V _{CC} B2
H4	V _{COMPLF}	K8	GND	M12	VMV2
H5	GFC0/IO164NPB3	K9	GND	M13	IO94RSB2
H6	V _{CC}	K10	GND	M14	GDB1/IO87PPB1
H7	GND	K11	V _{CC}	M15	GDC1/IO86PDB1
H8	GND	K12	V _{CC} B1	M16	IO84NDB1
H9	GND	K13	IO73NPB1	N1	IO150NDB3
H10	GND	K14	IO80NPB1	N2	IO147PPB3
H11	V _{CC}	K15	IO74NPB1	N3	GEC1/IO146PPB3
H12	GCC0/IO69NPB1	K16	IO72NDB1	N4	IO140RSB2
H13	GCB1/IO70PPB1	L1	IO159NDB3	N5	GNDQ
H14	GCA0/IO71NPB1	L2	IO156NPB3	N6	GEA2/IO143RSB2
H15	IO67NPB1	L3	IO151PPB3	N7	IO126RSB2
H16	GCB0/IO70NPB1	L4	IO158PSB3	N8	IO120RSB2
J1	GFA2/IO161PPB3	L5	V _{CC} B3	N9	IO108RSB2
J2	GFA1/IO162PDB3	L6	GND	N10	IO103RSB2
J3	V _{CC} PLF	L7	V _{CC}	N11	IO99RSB2
J4	IO160NDB3	L8	V _{CC}	N12	GNDQ
J5	GFB2/IO160PDB3	L9	V _{CC}	N13	IO92RSB2
J6	V _{CC}	L10	V _{CC}	N14	V _{JTAG}
J7	GND	L11	GND	N15	GDC0/IO86NDB1
J8	GND	L12	V _{CC} B1	N16	GDA1/IO88PDB1
J9	GND	L13	GDB0/IO87NPB1	P1	GEB1/IO145PDB3
J10	GND	L14	IO85NDB1	P2	GEB0/IO145NDB3
J11	V _{CC}	L15	IO85PDB1	P3	VMV2
J12	GCB2/IO73PPB1	L16	IO84PDB1	P4	IO138RSB2
J13	GCA1/IO71PPB1	M1	IO150PDB3	P5	IO136RSB2
J14	GCC2/IO74PPB1	M2	IO151NPB3	P6	IO131RSB2
J15	IO80PPB1	M3	IO147NPB3	P7	IO124RSB2
J16	GCA2/IO72PDB1	M4	GEC0/IO146NPB3	P8	IO119RSB2

256-Pin FBGA	
Pin Number	A3P600 Function
P9	IO107RSB2
P10	IO104RSB2
P11	IO97RSB2
P12	VMV1
P13	TCK
P14	V _{PUMP}
P15	TRST
P16	GDA0/IO88NDB1
R1	GEA1/IO144PDB3
R2	GEA0/IO144NDB3
R3	IO139RSB2
R4	GEC2/IO141RSB2
R5	IO132RSB2
R6	IO127RSB2
R7	IO121RSB2
R8	IO114RSB2
R9	IO109RSB2
R10	IO105RSB2
R11	IO98RSB2
R12	IO96RSB2
R13	GDB2/IO90RSB2
R14	TDI
R15	GNDQ
R16	TDO
T1	GND
T2	IO137RSB2
T3	GEB2/IO142RSB2
T4	IO134RSB2
T5	IO125RSB2
T6	IO123RSB2
T7	IO118RSB2
T8	IO115RSB2
T9	IO111RSB2
T10	IO106RSB2
T11	IO102RSB2
T12	GDC2/IO91RSB2

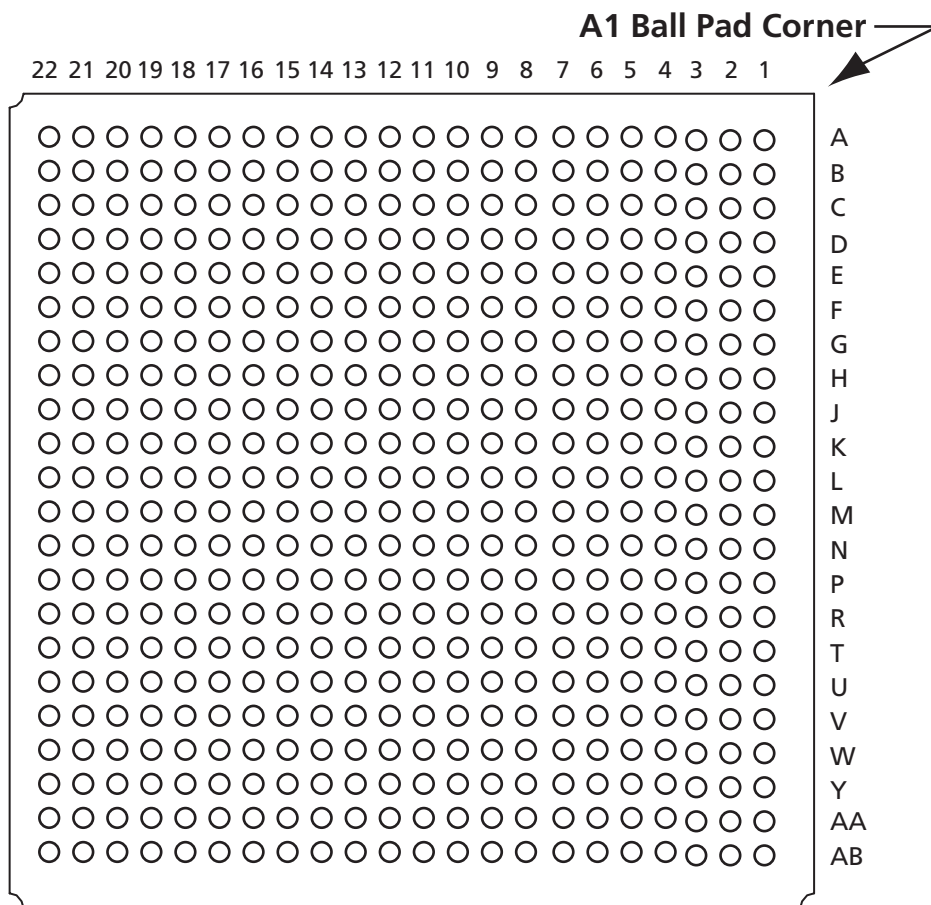
256-Pin FBGA	
Pin Number	A3P600 Function
T13	IO93RSB2
T14	GDA2/IO89RSB2
T15	TMS
T16	GND

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
A1	GND	C7	IO25RSB0	E13	GBC2/IO80PDB1
A2	GAA0/IO00RSB0	C8	IO36RSB0	E14	IO83PPB1
A3	GAA1/IO01RSB0	C9	IO42RSB0	E15	IO86PPB1
A4	GAB0/IO02RSB0	C10	IO49RSB0	E16	IO87PDB1
A5	IO16RSB0	C11	IO56RSB0	F1	IO217NDB3
A6	IO22RSB0	C12	GBC0/IO72RSB0	F2	IO218NDB3
A7	IO28RSB0	C13	IO62RSB0	F3	IO216PDB3
A8	IO35RSB0	C14	VMV0	F4	IO216NDB3
A9	IO45RSB0	C15	IO78NDB1	F5	V _{CC} B3
A10	IO50RSB0	C16	IO81NDB1	F6	GND
A11	IO55RSB0	D1	IO222NDB3	F7	V _{CC}
A12	IO61RSB0	D2	IO222PDB3	F8	V _{CC}
A13	GBB1/IO75RSB0	D3	GAC2/IO223PDB3	F9	V _{CC}
A14	GBA0/IO76RSB0	D4	IO223NDB3	F10	V _{CC}
A15	GBA1/IO77RSB0	D5	GNDQ	F11	GND
A16	GND	D6	IO23RSB0	F12	V _{CC} B1
B1	GAB2/IO224PDB3	D7	IO29RSB0	F13	IO83NPB1
B2	GAA2/IO225PDB3	D8	IO33RSB0	F14	IO86NPB1
B3	GNDQ	D9	IO46RSB0	F15	IO90PPB1
B4	GAB1/IO03RSB0	D10	IO52RSB0	F16	IO87NDB1
B5	IO17RSB0	D11	IO60RSB0	G1	IO210PSB3
B6	IO21RSB0	D12	GNDQ	G2	IO213NDB3
B7	IO27RSB0	D13	IO80NDB1	G3	IO213PDB3
B8	IO34RSB0	D14	GBB2/IO79PDB1	G4	GFC1/IO209PPB3
B9	IO44RSB0	D15	IO79NDB1	G5	V _{CC} B3
B10	IO51RSB0	D16	IO82NSB1	G6	V _{CC}
B11	IO57RSB0	E1	IO217PDB3	G7	GND
B12	GBC1/IO73RSB0	E2	IO218PDB3	G8	GND
B13	GBB0/IO74RSB0	E3	IO221NDB3	G9	GND
B14	IO71RSB0	E4	IO221PDB3	G10	GND
B15	GBA2/IO78PDB1	E5	VMV0	G11	V _{CC}
B16	IO81PDB1	E6	V _{CC} B0	G12	V _{CC} B1
C1	IO224NDB3	E7	V _{CC} B0	G13	GCC1/IO91PPB1
C2	IO225NDB3	E8	IO38RSB0	G14	IO90NPB1
C3	VMV3	E9	IO47RSB0	G15	IO88PDB1
C4	IO11RSB0	E10	V _{CC} B0	G16	IO88NDB1
C5	GAC0/IO04RSB0	E11	V _{CC} B0	H1	GFB0/IO208NPB3
C6	GAC1/IO05RSB0	E12	VMV1	H2	GFA0/IO207NDB3

256-Pin FBGA		256-Pin FBGA		256-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
H3	GFB1/IO208PPB3	K9	GND	M15	GDC1/IO111PDB1
H4	V _{COMPLF}	K10	GND	M16	IO107NDB1
H5	GFC0/IO209NPB3	K11	V _{CC}	N1	IO194PSB3
H6	V _{CC}	K12	V _{CC} B1	N2	IO192PPB3
H7	GND	K13	IO95NPB1	N3	GEC1/IO190PPB3
H8	GND	K14	IO100NPB1	N4	IO192NPB3
H9	GND	K15	IO102NDB1	N5	GNDQ
H10	GND	K16	IO102PDB1	N6	GEA2/IO187RSB2
H11	V _{CC}	L1	IO202NDB3	N7	IO161RSB2
H12	GCC0/IO91NPB1	L2	IO202PDB3	N8	IO155RSB2
H13	GCB1/IO92PPB1	L3	IO196PPB3	N9	IO141RSB2
H14	GCA0/IO93NPB1	L4	IO193PPB3	N10	IO129RSB2
H15	IO96NPB1	L5	V _{CC} B3	N11	IO124RSB2
H16	GCB0/IO92NPB1	L6	GND	N12	GNDQ
J1	GFA2/IO206PSB3	L7	V _{CC}	N13	IO110PDB1
J2	GFA1/IO207PDB3	L8	V _{CC}	N14	V _{JTAG}
J3	V _{CC} PLF	L9	V _{CC}	N15	GDC0/IO111NDB1
J4	IO205NDB3	L10	V _{CC}	N16	GDA1/IO113PDB1
J5	GFB2/IO205PDB3	L11	GND	P1	GEB1/IO189PDB3
J6	V _{CC}	L12	V _{CC} B1	P2	GEB0/IO189NDB3
J7	GND	L13	GDB0/IO112NPB1	P3	VMV2
J8	GND	L14	IO106NDB1	P4	IO179RSB2
J9	GND	L15	IO106PDB1	P5	IO171RSB2
J10	GND	L16	IO107PDB1	P6	IO165RSB2
J11	V _{CC}	M1	IO197NSB3	P7	IO159RSB2
J12	GCB2/IO95PPB1	M2	IO196NPB3	P8	IO151RSB2
J13	GCA1/IO93PPB1	M3	IO193NPB3	P9	IO137RSB2
J14	GCC2/IO96PPB1	M4	GEC0/IO190NPB3	P10	IO134RSB2
J15	IO100PPB1	M5	VMV3	P11	IO128RSB2
J16	GCA2/IO94PSB1	M6	V _{CC} B2	P12	VMV1
K1	GFC2/IO204PDB3	M7	V _{CC} B2	P13	TCK
K2	IO204NDB3	M8	IO147RSB2	P14	V _{PUMP}
K3	IO203NDB3	M9	IO136RSB2	P15	TRST
K4	IO203PDB3	M10	V _{CC} B2	P16	GDA0/IO113NDB1
K5	V _{CC} B3	M11	V _{CC} B2	R1	GEA1/IO188PDB3
K6	V _{CC}	M12	VMV2	R2	GEA0/IO188NDB3
K7	GND	M13	IO110NDB1	R3	IO184RSB2
K8	GND	M14	GDB1/IO112PPB1	R4	GEC2/IO185RSB2

256-Pin FBGA	
Pin Number	A3P1000 Function
R5	IO168RSB2
R6	IO163RSB2
R7	IO157RSB2
R8	IO149RSB2
R9	IO143RSB2
R10	IO138RSB2
R11	IO131RSB2
R12	IO125RSB2
R13	GDB2/IO115RSB2
R14	TDI
R15	GNDQ
R16	TDO
T1	GND
T2	IO183RSB2
T3	GEB2/IO186RSB2
T4	IO172RSB2
T5	IO170RSB2
T6	IO164RSB2
T7	IO158RSB2
T8	IO153RSB2
T9	IO142RSB2
T10	IO135RSB2
T11	IO130RSB2
T12	GDC2/IO116RSB2
T13	IO120RSB2
T14	GDA2/IO114RSB2
T15	TMS
T16	GND

484-Pin FBGA



Note: This is the bottom view of the package.

Note

For Package Manufacturing and Environmental information, visit the Resource Center at <http://www.actel.com/products/solutions/package/docs.aspx>.

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
A1	GND	B15	NC	D7	GAB0/IO02RSB0
A2	GND	B16	NC	D8	IO16RSB0
A3	V _{CC} B0	B17	NC	D9	IO17RSB0
A4	NC	B18	NC	D10	IO22RSB0
A5	NC	B19	NC	D11	IO28RSB0
A6	IO15RSB0	B20	NC	D12	IO34RSB0
A7	IO18RSB0	B21	V _{CC} B1	D13	IO37RSB0
A8	NC	B22	GND	D14	IO41RSB0
A9	NC	C1	V _{CC} B3	D15	IO43RSB0
A10	IO23RSB0	C2	NC	D16	GBB1/IO57RSB0
A11	IO29RSB0	C3	NC	D17	GBA0/IO58RSB0
A12	IO35RSB0	C4	NC	D18	GBA1/IO59RSB0
A13	IO36RSB0	C5	GND	D19	GND
A14	NC	C6	NC	D20	NC
A15	NC	C7	NC	D21	NC
A16	IO50RSB0	C8	V _{CC}	D22	NC
A17	IO51RSB0	C9	V _{CC}	E1	NC
A18	NC	C10	NC	E2	NC
A19	NC	C11	NC	E3	GND
A20	V _{CC} B0	C12	NC	E4	GAB2/IO154UDB3
A21	GND	C13	NC	E5	GAA2/IO155UDB3
A22	GND	C14	V _{CC}	E6	IO12RSB0
B1	GND	C15	V _{CC}	E7	GAB1/IO03RSB0
B2	V _{CC} B3	C16	NC	E8	IO13RSB0
B3	NC	C17	NC	E9	IO14RSB0
B4	NC	C18	GND	E10	IO21RSB0
B5	NC	C19	NC	E11	IO27RSB0
B6	NC	C20	NC	E12	IO32RSB0
B7	NC	C21	NC	E13	IO38RSB0
B8	NC	C22	V _{CC} B1	E14	IO42RSB0
B9	NC	D1	NC	E15	GBC1/IO55RSB0
B10	NC	D2	NC	E16	GBB0/IO56RSB0
B11	NC	D3	NC	E17	IO44RSB0
B12	NC	D4	GND	E18	GBA2/IO60PDB1
B13	NC	D5	GAA0/IO00RSB0	E19	IO60NDB1
B14	NC	D6	GAA1/IO01RSB0	E20	GND

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
E21	NC	G13	IO40RSB0	J5	IO149NPB3
E22	NC	G14	IO46RSB0	J6	IO09RSB0
F1	NC	G15	GNDQ	J7	IO152UDB3
F2	NC	G16	IO47RSB0	J8	V _{CC} B3
F3	NC	G17	GBB2/IO61PPB1	J9	GND
F4	IO154VDB3	G18	IO53RSB0	J10	V _{CC}
F5	IO155VDB3	G19	IO63NDB1	J11	V _{CC}
F6	IO11RSB0	G20	NC	J12	V _{CC}
F7	IO07RSB0	G21	NC	J13	V _{CC}
F8	GAC0/IO04RSB0	G22	NC	J14	GND
F9	GAC1/IO05RSB0	H1	NC	J15	V _{CC} B1
F10	IO20RSB0	H2	NC	J16	IO62NDB1
F11	IO24RSB0	H3	V _{CC}	J17	IO49RSB0
F12	IO33RSB0	H4	IO150PDB3	J18	IO64PPB1
F13	IO39RSB0	H5	IO08RSB0	J19	IO66NDB1
F14	IO45RSB0	H6	IO153VDB3	J20	NC
F15	GBC0/IO54RSB0	H7	IO152VDB3	J21	NC
F16	IO48RSB0	H8	VMV0	J22	NC
F17	VMV0	H9	V _{CC} B0	K1	NC
F18	IO61NPB1	H10	V _{CC} B0	K2	NC
F19	IO63PDB1	H11	IO25RSB0	K3	NC
F20	NC	H12	IO31RSB0	K4	IO148NDB3
F21	NC	H13	V _{CC} B0	K5	IO148PDB3
F22	NC	H14	V _{CC} B0	K6	IO149PPB3
G1	NC	H15	VMV1	K7	GFC1/IO147PPB3
G2	NC	H16	GBC2/IO62PDB1	K8	V _{CC} B3
G3	NC	H17	IO65RSB1	K9	V _{CC}
G4	IO151VDB3	H18	IO52RSB0	K10	GND
G5	IO151UDB3	H19	IO66PDB1	K11	GND
G6	GAC2/IO153UDB3	H20	V _{CC}	K12	GND
G7	IO06RSB0	H21	NC	K13	GND
G8	GNDQ	H22	NC	K14	V _{CC}
G9	IO10RSB0	J1	NC	K15	V _{CC} B1
G10	IO19RSB0	J2	NC	K16	GCC1/IO67PPB1
G11	IO26RSB0	J3	NC	K17	IO64NPB1
G12	IO30RSB0	J4	IO150NDB3	K18	IO73PDB1

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
K19	IO73NDB1	M11	GND	P3	NC
K20	NC	M12	GND	P4	IO142NDB3
K21	NC	M13	GND	P5	IO141NPB3
K22	NC	M14	V _{CC}	P6	IO125RSB2
L1	NC	M15	GCB2/IO71PPB1	P7	IO139RSB3
L2	NC	M16	GCA1/IO69PPB1	P8	V _{CC} B3
L3	NC	M17	GCC2/IO72PPB1	P9	GND
L4	GFB0/IO146NPB3	M18	NC	P10	V _{CC}
L5	GFA0/IO145NDB3	M19	GCA2/IO70PDB1	P11	V _{CC}
L6	GFB1/IO146PPB3	M20	NC	P12	V _{CC}
L7	V _{COMPLF}	M21	NC	P13	V _{CC}
L8	GFC0/IO147NPB3	M22	NC	P14	GND
L9	V _{CC}	N1	NC	P15	V _{CC} B1
L10	GND	N2	NC	P16	GDB0/IO78VVPB1
L11	GND	N3	NC	P17	IO76VDB1
L12	GND	N4	GFC2/IO142PDB3	P18	IO76UDB1
L13	GND	N5	IO144NPB3	P19	IO75PDB1
L14	V _{CC}	N6	IO141PPB3	P20	NC
L15	GCC0/IO67NPB1	N7	IO120RSB2	P21	NC
L16	GCB1/IO68PPB1	N8	V _{CC} B3	P22	NC
L17	GCA0/IO69NPB1	N9	V _{CC}	R1	NC
L18	NC	N10	GND	R2	NC
L19	GCB0/IO68NPB1	N11	GND	R3	V _{CC}
L20	NC	N12	GND	R4	IO140PDB3
L21	NC	N13	GND	R5	IO130RSB2
L22	NC	N14	V _{CC}	R6	IO138NPB3
M1	NC	N15	V _{CC} B1	R7	GEC0/IO137NPB3
M2	NC	N16	IO71NPB1	R8	VMV3
M3	NC	N17	IO74RSB1	R9	V _{CC} B2
M4	GFA2/IO144PPB3	N18	IO72NPB1	R10	V _{CC} B2
M5	GFA1/IO145PDB3	N19	IO70NDB1	R11	IO108RSB2
M6	V _{CC} PLF	N20	NC	R12	IO101RSB2
M7	IO143NDB3	N21	NC	R13	V _{CC} B2
M8	GFB2/IO143PDB3	N22	NC	R14	V _{CC} B2
M9	V _{CC}	P1	NC	R15	VMV2
M10	GND	P2	NC	R16	IO83RSB2

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P400 Function	Pin Number	A3P400 Function	Pin Number	A3P400 Function
R17	GDB1/IO78UPB1	U9	IO122RSB2	W1	NC
R18	GDC1/IO77UDB1	U10	IO115RSB2	W2	NC
R19	IO75NDB1	U11	IO110RSB2	W3	NC
R20	V _{CC}	U12	IO98RSB2	W4	GND
R21	NC	U13	IO95RSB2	W5	IO126RSB2
R22	NC	U14	IO88RSB2	W6	GEB2/IO133RSB2
T1	NC	U15	IO84RSB2	W7	IO124RSB2
T2	NC	U16	TCK	W8	IO116RSB2
T3	NC	U17	V _{PUMP}	W9	IO113RSB2
T4	IO140NDB3	U18	TRST	W10	IO107RSB2
T5	IO138PPB3	U19	GDA0/IO79VDB1	W11	IO105RSB2
T6	GEC1/IO137PPB3	U20	NC	W12	IO102RSB2
T7	IO131RSB2	U21	NC	W13	IO97RSB2
T8	GNDQ	U22	NC	W14	IO92RSB2
T9	GEA2/IO134RSB2	V1	NC	W15	GDC2/IO82RSB2
T10	IO117RSB2	V2	NC	W16	IO86RSB2
T11	IO111RSB2	V3	GND	W17	GDA2/IO80RSB2
T12	IO99RSB2	V4	GEA1/IO135PDB3	W18	TMS
T13	IO94RSB2	V5	GEA0/IO135NDB3	W19	GND
T14	IO87RSB2	V6	IO127RSB2	W20	NC
T15	GNDQ	V7	GEC2/IO132RSB2	W21	NC
T16	IO93RSB2	V8	IO123RSB2	W22	NC
T17	V _{JTAG}	V9	IO118RSB2	Y1	V _{CC} B3
T18	GDC0/IO77VDB1	V10	IO112RSB2	Y2	NC
T19	GDA1/IO79UDB1	V11	IO106RSB2	Y3	NC
T20	NC	V12	IO100RSB2	Y4	NC
T21	NC	V13	IO96RSB2	Y5	GND
T22	NC	V14	IO89RSB2	Y6	NC
U1	NC	V15	IO85RSB2	Y7	NC
U2	NC	V16	GDB2/IO81RSB2	Y8	V _{CC}
U3	NC	V17	TDI	Y9	V _{CC}
U4	GEB1/IO136PDB3	V18	NC	Y10	NC
U5	GEB0/IO136NDB3	V19	TDO	Y11	NC
U6	VMV2	V20	GND	Y12	NC
U7	IO129RSB2	V21	NC	Y13	NC
U8	IO128RSB2	V22	NC	Y14	V _{CC}

484-Pin FBGA	
Pin Number	A3P400 Function
Y15	V _{CC}
Y16	NC
Y17	NC
Y18	GND
Y19	NC
Y20	NC
Y21	NC
Y22	V _{CC} B1
AA1	GND
AA2	V _{CC} B3
AA3	NC
AA4	NC
AA5	NC
AA6	NC
AA7	NC
AA8	NC
AA9	NC
AA10	NC
AA11	NC
AA12	NC
AA13	NC
AA14	NC
AA15	NC
AA16	NC
AA17	NC
AA18	NC
AA19	NC
AA20	NC
AA21	V _{CC} B1
AA22	GND
AB1	GND
AB2	GND
AB3	V _{CC} B2
AB4	NC
AB5	NC
AB6	IO121RSB2

484-Pin FBGA	
Pin Number	A3P400 Function
AB7	IO119RSB2
AB8	IO114RSB2
AB9	IO109RSB2
AB10	NC
AB11	NC
AB12	IO104RSB2
AB13	IO103RSB2
AB14	NC
AB15	NC
AB16	IO91RSB2
AB17	IO90RSB2
AB18	NC
AB19	NC
AB20	V _{CC} B2
AB21	GND
AB22	GND

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
A1	GND	B15	NC	D7	GAB0/IO02RSB0
A2	GND	B16	IO47RSB0	D8	IO11RSB0
A3	VCCIB0	B17	IO49RSB0	D9	IO16RSB0
A4	NC	B18	NC	D10	IO18RSB0
A5	NC	B19	NC	D11	IO28RSB0
A6	IO09RSB0	B20	NC	D12	IO34RSB0
A7	IO15RSB0	B21	V _{CCI} B1	D13	IO37RSB0
A8	NC	B22	GND	D14	IO41RSB0
A9	NC	C1	V _{CCI} B3	D15	IO43RSB0
A10	IO22RSB0	C2	NC	D16	GBB1/IO57RSB0
A11	IO23RSB0	C3	NC	D17	GBA0/IO58RSB0
A12	IO29RSB0	C4	NC	D18	GBA1/IO59RSB0
A13	IO35RSB0	C5	GND	D19	GND
A14	NC	C6	NC	D20	NC
A15	NC	C7	NC	D21	NC
A16	IO46RSB0	C8	V _{CC}	D22	NC
A17	IO48RSB0	C9	V _{CC}	E1	NC
A18	NC	C10	NC	E2	NC
A19	NC	C11	NC	E3	GND
A20	V _{CCI} B0	C12	NC	E4	GAB2/IO173PDB3
A21	GND	C13	NC	E5	GAA2/IO174PDB3
A22	GND	C14	V _{CC}	E6	GNDQ
B1	GND	C15	V _{CC}	E7	GAB1/IO03RSB0
B2	V _{CCI} B3	C16	NC	E8	IO13RSB0
B3	NC	C17	NC	E9	IO14RSB0
B4	NC	C18	GND	E10	IO21RSB0
B5	NC	C19	NC	E11	IO27RSB0
B6	IO08RSB0	C20	NC	E12	IO32RSB0
B7	IO12RSB0	C21	NC	E13	IO38RSB0
B8	NC	C22	V _{CCI} B1	E14	IO42RSB0
B9	NC	D1	NC	E15	GBC1/IO55RSB0
B10	IO17RSB0	D2	NC	E16	GBB0/IO56RSB0
B11	NC	D3	NC	E17	IO52RSB0
B12	NC	D4	GND	E18	GBA2/IO60PDB1
B13	IO36RSB0	D5	GAA0/IO00RSB0	E19	IO60NDB1
B14	NC	D6	GAA1/IO01RSB0	E20	GND

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
E21	NC	G13	IO40RSB0	J5	IO168NPB3
E22	NC	G14	IO45RSB0	J6	IO167PPB3
F1	NC	G15	GNDQ	J7	IO169PDB3
F2	NC	G16	IO50RSB0	J8	V _{CC} B3
F3	NC	G17	GBB2/IO61PPB1	J9	GND
F4	IO173NDB3	G18	IO53RSB0	J10	V _{CC}
F5	IO174NDB3	G19	IO63NDB1	J11	V _{CC}
F6	VMV3	G20	NC	J12	V _{CC}
F7	IO07RSB0	G21	NC	J13	V _{CC}
F8	GAC0/IO04RSB0	G22	NC	J14	GND
F9	GAC1/IO05RSB0	H1	NC	J15	V _{CC} B1
F10	IO20RSB0	H2	NC	J16	IO62NDB1
F11	IO24RSB0	H3	V _{CC}	J17	IO64NPB1
F12	IO33RSB0	H4	IO166PDB3	J18	IO65PPB1
F13	IO39RSB0	H5	IO167NPB3	J19	IO66NDB1
F14	IO44RSB0	H6	IO172NDB3	J20	NC
F15	GBC0/IO54RSB0	H7	IO169NDB3	J21	IO68PDB1
F16	IO51RSB0	H8	VMV0	J22	IO68NDB1
F17	VMV0	H9	V _{CC} B0	K1	IO157PDB3
F18	IO61NPB1	H10	V _{CC} B0	K2	IO157NDB3
F19	IO63PDB1	H11	IO25RSB0	K3	NC
F20	NC	H12	IO31RSB0	K4	IO165NDB3
F21	NC	H13	V _{CC} B0	K5	IO165PDB3
F22	NC	H14	V _{CC} B0	K6	IO168PPB3
G1	IO170NDB3	H15	VMV1	K7	GFC1/IO164PPB3
G2	IO170PDB3	H16	GBC2/IO62PDB1	K8	V _{CC} B3
G3	NC	H17	IO67PPB1	K9	V _{CC}
G4	IO171NDB3	H18	IO64PPB1	K10	GND
G5	IO171PDB3	H19	IO66PDB1	K11	GND
G6	GAC2/IO172PDB3	H20	V _{CC}	K12	GND
G7	IO06RSB0	H21	NC	K13	GND
G8	GNDQ	H22	NC	K14	V _{CC}
G9	IO10RSB0	J1	NC	K15	V _{CC} B1
G10	IO19RSB0	J2	NC	K16	GCC1/IO69PPB1
G11	IO26RSB0	J3	NC	K17	IO65NPB1
G12	IO30RSB0	J4	IO166NDB3	K18	IO75PDB1

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
K19	IO75NDB1	M11	GND	P3	IO153NDB3
K20	NC	M12	GND	P4	IO159NDB3
K21	IO76NDB1	M13	GND	P5	IO156NPB3
K22	IO76PDB1	M14	V _{CC}	P6	IO151PPB3
L1	NC	M15	GCB2/IO73PPB1	P7	IO158PPB3
L2	IO155PDB3	M16	GCA1/IO71PPB1	P8	V _{CC} B3
L3	NC	M17	GCC2/IO74PPB1	P9	GND
L4	GFB0/IO163NPB3	M18	IO80PPB1	P10	V _{CC}
L5	GFA0/IO162NDB3	M19	GCA2/IO72PDB1	P11	V _{CC}
L6	GFB1/IO163PPB3	M20	IO79PPB1	P12	V _{CC}
L7	V _{COMPLF}	M21	IO78PPB1	P13	V _{CC}
L8	GFC0/IO164NPB3	M22	NC	P14	GND
L9	V _{CC}	N1	IO154NDB3	P15	V _{CC} B1
L10	GND	N2	IO154PDB3	P16	GDB0/IO87NPB1
L11	GND	N3	NC	P17	IO85NDB1
L12	GND	N4	GFC2/IO159PDB3	P18	IO85PDB1
L13	GND	N5	IO161NPB3	P19	IO84PDB1
L14	V _{CC}	N6	IO156PPB3	P20	NC
L15	GCC0/IO69NPB1	N7	IO129RSB2	P21	IO81PDB1
L16	GCB1/IO70PPB1	N8	V _{CC} B3	P22	NC
L17	GCA0/IO71NPB1	N9	V _{CC}	R1	NC
L18	IO67NPB1	N10	GND	R2	NC
L19	GCB0/IO70NPB1	N11	GND	R3	V _{CC}
L20	IO77PDB1	N12	GND	R4	IO150PDB3
L21	IO77NDB1	N13	GND	R5	IO151NPB3
L22	IO78NPB1	N14	V _{CC}	R6	IO147NPB3
M1	NC	N15	V _{CC} B1	R7	GEC0/IO146NPB3
M2	IO155NDB3	N16	IO73NPB1	R8	VMV3
M3	IO158NPB3	N17	IO80NPB1	R9	V _{CC} B2
M4	GFA2/IO161PPB3	N18	IO74NPB1	R10	V _{CC} B2
M5	GFA1/IO162PDB3	N19	IO72NDB1	R11	IO117RSB2
M6	V _{CC} PLF	N20	NC	R12	IO110RSB2
M7	IO160NDB3	N21	IO79NPB1	R13	V _{CC} B2
M8	GFB2/IO160PDB3	N22	NC	R14	V _{CC} B2
M9	V _{CC}	P1	NC	R15	VMV2
M10	GND	P2	IO153PDB3	R16	IO94RSB2

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function	Pin Number	A3P600 Function
R17	GDB1/IO87PPB1	U9	IO131RSB2	W1	NC
R18	GDC1/IO86PDB1	U10	IO124RSB2	W2	IO148PDB3
R19	IO84NDB1	U11	IO119RSB2	W3	NC
R20	V _{CC}	U12	IO107RSB2	W4	GND
R21	IO81NDB1	U13	IO104RSB2	W5	IO137RSB2
R22	IO82PDB1	U14	IO97RSB2	W6	GEB2/IO142RSB2
T1	IO152PDB3	U15	VMV1	W7	IO134RSB2
T2	IO152NDB3	U16	TCK	W8	IO125RSB2
T3	NC	U17	V _{PUMP}	W9	IO123RSB2
T4	IO150NDB3	U18	TRST	W10	IO118RSB2
T5	IO147PPB3	U19	GDA0/IO88NDB1	W11	IO115RSB2
T6	GEC1/IO146PPB3	U20	NC	W12	IO111RSB2
T7	IO140RSB2	U21	IO83NDB1	W13	IO106RSB2
T8	GNDQ	U22	NC	W14	IO102RSB2
T9	GEA2/IO143RSB2	V1	NC	W15	GDC2/IO91RSB2
T10	IO126RSB2	V2	NC	W16	IO93RSB2
T11	IO120RSB2	V3	GND	W17	GDA2/IO89RSB2
T12	IO108RSB2	V4	GEA1/IO144PDB3	W18	TMS
T13	IO103RSB2	V5	GEA0/IO144NDB3	W19	GND
T14	IO99RSB2	V6	IO139RSB2	W20	NC
T15	GNDQ	V7	GEC2/IO141RSB2	W21	NC
T16	IO92RSB2	V8	IO132RSB2	W22	NC
T17	V _{JTAG}	V9	IO127RSB2	Y1	V _{CC} B3
T18	GDC0/IO86NDB1	V10	IO121RSB2	Y2	IO148NDB3
T19	GDA1/IO88PDB1	V11	IO114RSB2	Y3	NC
T20	NC	V12	IO109RSB2	Y4	NC
T21	IO83PDB1	V13	IO105RSB2	Y5	GND
T22	IO82NDB1	V14	IO98RSB2	Y6	NC
U1	IO149PDB3	V15	IO96RSB2	Y7	NC
U2	IO149NDB3	V16	GDB2/IO90RSB2	Y8	V _{CC}
U3	NC	V17	TDI	Y9	V _{CC}
U4	GEB1/IO145PDB3	V18	GNDQ	Y10	NC
U5	GEB0/IO145NDB3	V19	TDO	Y11	NC
U6	VMV2	V20	GND	Y12	NC
U7	IO138RSB2	V21	NC	Y13	NC
U8	IO136RSB2	V22	NC	Y14	V _{CC}

484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P600 Function	Pin Number	A3P600 Function
Y15	V _{CC}	AB7	IO128RSB2
Y16	NC	AB8	IO122RSB2
Y17	NC	AB9	IO116RSB2
Y18	GND	AB10	NC
Y19	NC	AB11	NC
Y20	NC	AB12	IO113RSB2
Y21	NC	AB13	IO112RSB2
Y22	V _{CC} B1	AB14	NC
AA1	GND	AB15	NC
AA2	V _{CC} B3	AB16	IO100RSB2
AA3	NC	AB17	IO95RSB2
AA4	NC	AB18	NC
AA5	NC	AB19	NC
AA6	IO135RSB2	AB20	V _{CC} B2
AA7	IO133RSB2	AB21	GND
AA8	NC	AB22	GND
AA9	NC		
AA10	NC		
AA11	NC		
AA12	NC		
AA13	NC		
AA14	NC		
AA15	NC		
AA16	IO101RSB2		
AA17	NC		
AA18	NC		
AA19	NC		
AA20	NC		
AA21	V _{CC} B1		
AA22	GND		
AB1	GND		
AB2	GND		
AB3	V _{CC} B2		
AB4	NC		
AB5	NC		
AB6	IO130RSB2		

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
A1	GND	B15	IO63RSB0	D7	GAB0/IO02RSB0
A2	GND	B16	IO66RSB0	D8	IO16RSB0
A3	V _{CC} B0	B17	IO68RSB0	D9	IO22RSB0
A4	IO07RSB0	B18	IO70RSB0	D10	IO28RSB0
A5	IO09RSB0	B19	NC	D11	IO35RSB0
A6	IO13RSB0	B20	NC	D12	IO45RSB0
A7	IO18RSB0	B21	V _{CC} B1	D13	IO50RSB0
A8	IO20RSB0	B22	GND	D14	IO55RSB0
A9	IO26RSB0	C1	V _{CC} B3	D15	IO61RSB0
A10	IO32RSB0	C2	IO220PDB3	D16	GBB1/IO75RSB0
A11	IO40RSB0	C3	NC	D17	GBA0/IO76RSB0
A12	IO41RSB0	C4	NC	D18	GBA1/IO77RSB0
A13	IO53RSB0	C5	GND	D19	GND
A14	IO59RSB0	C6	IO10RSB0	D20	NC
A15	IO64RSB0	C7	IO14RSB0	D21	NC
A16	IO65RSB0	C8	V _{CC}	D22	NC
A17	IO67RSB0	C9	V _{CC}	E1	IO219NDB3
A18	IO69RSB0	C10	IO30RSB0	E2	NC
A19	NC	C11	IO37RSB0	E3	GND
A20	V _{CC} B0	C12	IO43RSB0	E4	GAB2/IO224PDB3
A21	GND	C13	NC	E5	GAA2/IO225PDB3
A22	GND	C14	V _{CC}	E6	GNDQ
B1	GND	C15	V _{CC}	E7	GAB1/IO03RSB0
B2	V _{CC} B3	C16	NC	E8	IO17RSB0
B3	NC	C17	NC	E9	IO21RSB0
B4	IO06RSB0	C18	GND	E10	IO27RSB0
B5	IO08RSB0	C19	NC	E11	IO34RSB0
B6	IO12RSB0	C20	NC	E12	IO44RSB0
B7	IO15RSB0	C21	NC	E13	IO51RSB0
B8	IO19RSB0	C22	V _{CC} B1	E14	IO57RSB0
B9	IO24RSB0	D1	IO219PDB3	E15	GBC1/IO73RSB0
B10	IO31RSB0	D2	IO220NDB3	E16	GBB0/IO74RSB0
B11	IO39RSB0	D3	NC	E17	IO71RSB0
B12	IO48RSB0	D4	GND	E18	GBA2/IO78PDB1
B13	IO54RSB0	D5	GAA0/IO00RSB0	E19	IO81PDB1
B14	IO58RSB0	D6	GAA1/IO01RSB0	E20	GND

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
E21	NC	G13	IO52RSB0	J5	IO218NDB3
E22	IO84PDB1	G14	IO60RSB0	J6	IO216PDB3
F1	NC	G15	GNDQ	J7	IO216NDB3
F2	IO215PDB3	G16	IO80NDB1	J8	V _{CC} B3
F3	IO215NDB3	G17	GBB2/IO79PDB1	J9	GND
F4	IO224NDB3	G18	IO79NDB1	J10	V _{CC}
F5	IO225NDB3	G19	IO82NPB1	J11	V _{CC}
F6	VMV3	G20	IO85PDB1	J12	V _{CC}
F7	IO11RSB0	G21	IO85NDB1	J13	V _{CC}
F8	GAC0/IO04RSB0	G22	NC	J14	GND
F9	GAC1/IO05RSB0	H1	NC	J15	V _{CC} B1
F10	IO25RSB0	H2	NC	J16	IO83NPB1
F11	IO36RSB0	H3	V _{CC}	J17	IO86NPB1
F12	IO42RSB0	H4	IO217PDB3	J18	IO90PPB1
F13	IO49RSB0	H5	IO218PDB3	J19	IO87NDB1
F14	IO56RSB0	H6	IO221NDB3	J20	NC
F15	GBC0/IO72RSB0	H7	IO221PDB3	J21	IO89PDB1
F16	IO62RSB0	H8	VMV0	J22	IO89NDB1
F17	VMV0	H9	V _{CC} B0	K1	IO211PDB3
F18	IO78NDB1	H10	V _{CC} B0	K2	IO211NDB3
F19	IO81NDB1	H11	IO38RSB0	K3	NC
F20	IO82PPB1	H12	IO47RSB0	K4	IO210PPB3
F21	NC	H13	V _{CC} B0	K5	IO213NDB3
F22	IO84NDB1	H14	V _{CC} B0	K6	IO213PDB3
G1	IO214NDB3	H15	VMV1	K7	GFC1/IO209PPB3
G2	IO214PDB3	H16	GBC2/IO80PDB1	K8	V _{CC} B3
G3	NC	H17	IO83PPB1	K9	V _{CC}
G4	IO222NDB3	H18	IO86PPB1	K10	GND
G5	IO222PDB3	H19	IO87PDB1	K11	GND
G6	GAC2/IO223PDB3	H20	V _{CC}	K12	GND
G7	IO223NDB3	H21	NC	K13	GND
G8	GNDQ	H22	NC	K14	V _{CC}
G9	IO23RSB0	J1	IO212NDB3	K15	V _{CC} B1
G10	IO29RSB0	J2	IO212PDB3	K16	GCC1/IO91PPB1
G11	IO33RSB0	J3	NC	K17	IO90NPB1
G12	IO46RSB0	J4	IO217NDB3	K18	IO88PDB1

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
K19	IO88NDB1	M11	GND	P3	IO199NDB3
K20	IO94NPB1	M12	GND	P4	IO202NDB3
K21	IO98NDB1	M13	GND	P5	IO202PDB3
K22	IO98PDB1	M14	V _{CC}	P6	IO196PPB3
L1	NC	M15	GCB2/IO95PPB1	P7	IO193PPB3
L2	IO200PDB3	M16	GCA1/IO93PPB1	P8	V _{CC} B3
L3	IO210NPB3	M17	GCC2/IO96PPB1	P9	GND
L4	GFB0/IO208NPB3	M18	IO100PPB1	P10	V _{CC}
L5	GFA0/IO207NDB3	M19	GCA2/IO94PPB1	P11	V _{CC}
L6	GFB1/IO208PPB3	M20	IO101PPB1	P12	V _{CC}
L7	V _{CC} PLF	M21	IO99PPB1	P13	V _{CC}
L8	GFC0/IO209NPB3	M22	NC	P14	GND
L9	V _{CC}	N1	IO201NDB3	P15	V _{CC} B1
L10	GND	N2	IO201PDB3	P16	GDB0/IO112NPB1
L11	GND	N3	NC	P17	IO106NDB1
L12	GND	N4	GFC2/IO204PDB3	P18	IO106PDB1
L13	GND	N5	IO204NDB3	P19	IO107PDB1
L14	V _{CC}	N6	IO203NDB3	P20	NC
L15	GCC0/IO91NPB1	N7	IO203PDB3	P21	IO104PDB1
L16	GCB1/IO92PPB1	N8	V _{CC} B3	P22	IO103NDB1
L17	GCA0/IO93NPB1	N9	V _{CC}	R1	NC
L18	IO96NPB1	N10	GND	R2	IO197PPB3
L19	GCB0/IO92NPB1	N11	GND	R3	V _{CC}
L20	IO97PDB1	N12	GND	R4	IO197NPB3
L21	IO97NDB1	N13	GND	R5	IO196NPB3
L22	IO99NPB1	N14	V _{CC}	R6	IO193NPB3
M1	NC	N15	V _{CC} B1	R7	GEC0/IO190NPB3
M2	IO200NDB3	N16	IO95NPB1	R8	VMV3
M3	IO206NDB3	N17	IO100NPB1	R9	V _{CC} B2
M4	GFA2/IO206PDB3	N18	IO102NDB1	R10	V _{CC} B2
M5	GFA1/IO207PDB3	N19	IO102PDB1	R11	IO147RSB2
M6	V _{CC} PLF	N20	NC	R12	IO136RSB2
M7	IO205NDB3	N21	IO101NPB1	R13	V _{CC} B2
M8	GFB2/IO205PDB3	N22	IO103PDB1	R14	V _{CC} B2
M9	V _{CC}	P1	NC	R15	VMV2
M10	GND	P2	IO199PDB3	R16	IO110NDB1

484-Pin FBGA		484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
R17	GDB1/IO112PPB1	U9	IO165RSB2	W1	NC
R18	GDC1/IO111PDB1	U10	IO159RSB2	W2	IO191PDB3
R19	IO107NDB1	U11	IO151RSB2	W3	NC
R20	V _{CC}	U12	IO137RSB2	W4	GND
R21	IO104NDB1	U13	IO134RSB2	W5	IO183RSB2
R22	IO105PDB1	U14	IO128RSB2	W6	GEB2/IO186RSB2
T1	IO198PDB3	U15	VMV1	W7	IO172RSB2
T2	IO198NDB3	U16	TCK	W8	IO170RSB2
T3	NC	U17	V _{PUMP}	W9	IO164RSB2
T4	IO194PPB3	U18	TRST	W10	IO158RSB2
T5	IO192PPB3	U19	GDA0/IO113NDB1	W11	IO153RSB2
T6	GEC1/IO190PPB3	U20	NC	W12	IO142RSB2
T7	IO192NPB3	U21	IO108NDB1	W13	IO135RSB2
T8	GNDQ	U22	IO109PDB1	W14	IO130RSB2
T9	GEA2/IO187RSB2	V1	NC	W15	GDC2/IO116RSB2
T10	IO161RSB2	V2	NC	W16	IO120RSB2
T11	IO155RSB2	V3	GND	W17	GDA2/IO114RSB2
T12	IO141RSB2	V4	GEA1/IO188PDB3	W18	TMS
T13	IO129RSB2	V5	GEA0/IO188NDB3	W19	GND
T14	IO124RSB2	V6	IO184RSB2	W20	NC
T15	GNDQ	V7	GEC2/IO185RSB2	W21	NC
T16	IO110PDB1	V8	IO168RSB2	W22	NC
T17	V _{JTAG}	V9	IO163RSB2	Y1	V _{CC} B3
T18	GDC0/IO111NDB1	V10	IO157RSB2	Y2	IO191NDB3
T19	GDA1/IO113PDB1	V11	IO149RSB2	Y3	NC
T20	NC	V12	IO143RSB2	Y4	IO182RSB2
T21	IO108PDB1	V13	IO138RSB2	Y5	GND
T22	IO105NDB1	V14	IO131RSB2	Y6	IO177RSB2
U1	IO195PDB3	V15	IO125RSB2	Y7	IO174RSB2
U2	IO195NDB3	V16	GDB2/IO115RSB2	Y8	V _{CC}
U3	IO194NPB3	V17	TDI	Y9	V _{CC}
U4	GEB1/IO189PDB3	V18	GNDQ	Y10	IO154RSB2
U5	GEB0/IO189NDB3	V19	TDO	Y11	IO148RSB2
U6	VMV2	V20	GND	Y12	IO140RSB2
U7	IO179RSB2	V21	NC	Y13	NC
U8	IO171RSB2	V22	IO109NDB1	Y14	V _{CC}

484-Pin FBGA		484-Pin FBGA	
Pin Number	A3P1000 Function	Pin Number	A3P1000 Function
Y15	V _{CC}	AB7	IO167RSB2
Y16	NC	AB8	IO162RSB2
Y17	NC	AB9	IO156RSB2
Y18	GND	AB10	IO150RSB2
Y19	NC	AB11	IO145RSB2
Y20	NC	AB12	IO144RSB2
Y21	NC	AB13	IO132RSB2
Y22	V _{CC} B1	AB14	IO127RSB2
AA1	GND	AB15	IO126RSB2
AA2	V _{CC} B3	AB16	IO123RSB2
AA3	NC	AB17	IO121RSB2
AA4	IO181RSB2	AB18	IO118RSB2
AA5	IO178RSB2	AB19	NC
AA6	IO175RSB2	AB20	V _{CC} B2
AA7	IO169RSB2	AB21	GND
AA8	IO166RSB2	AB22	GND
AA9	IO160RSB2		
AA10	IO152RSB2		
AA11	IO146RSB2		
AA12	IO139RSB2		
AA13	IO133RSB2		
AA14	NC		
AA15	NC		
AA16	IO122RSB2		
AA17	IO119RSB2		
AA18	IO117RSB2		
AA19	NC		
AA20	NC		
AA21	V _{CC} B1		
AA22	GND		
AB1	GND		
AB2	GND		
AB3	V _{CC} B2		
AB4	IO180RSB2		
AB5	IO176RSB2		
AB6	IO173RSB2		

Part Number and Revision Date

Part Number 51700097-003-5

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List of Changes

The following table lists critical changes that were made in the current version of the document.

Previous Version	Changes in Current Version (v1.5)	Page
v1.4 (December 2008)	The "121-Pin CSP" figure and table are new.	3-15
v1.3 (June 2008)	The "48-Pin QFP" table is new.	3-2
	The "68-Pin QFN" table is new.	3-5
v1.2 (February 2008)	Pin numbers were added to the "48-Pin QFN" package diagram. Note 2 was added below the diagram.	3-1
	The "132-Pin QFN" package diagram was updated to include D1 to D4. In addition, note 1 was changed from top view to bottom view, and note 2 is new.	3-6
v1.1 (January 2008)	The "48-Pin QFN" section is new.	3-1
v1.0 (January 2008)	In the "100-Pin VQFP" A3P030 pin table, the function of pin 63 was incorrect and changed from IO39RSB0 to GDB0/IO38RSB0.	3-18
v2.2 (July 2007)	This document was previously in datasheet v2.2. As a result of moving to the handbook format, Actel has restarted the version numbers. The new version number is v1.0.	N/A
v2.0 (April 2007)	The following pin tables were updated for A3P600: "208-Pin PQFP", "256-Pin FBGA", and "484-Pin FBGA". The "144-Pin FBGA" table for A3P600 is new.	4-27 – 4-63
Advance v0.7 (January 2007)	Notes were added to the package diagrams identifying if they were top or bottom view.	N/A
	The A3P030 "132-Pin QFN" table is new.	4-2
	The A3P060 "132-Pin QFN" table is new.	4-4
	The A3P125 "132-Pin QFN" table is new.	4-6
	The A3P250 "132-Pin QFN" table is new.	4-8
	The A3P030 "100-Pin VQFP" table is new.	4-11
Advance v0.5 (January 2006)	The A3P060 "100-Pin VQFP" pin table was updated.	4-13
	The A3P125 "100-Pin VQFP" pin table was updated.	4-13
	The A3P060 "144-Pin TQFP" pin table was updated.	4-16
	The A3P125 "144-Pin TQFP" pin table was updated.	4-18
	The A3P125 "208-Pin PQFP" pin table was updated.	4-21
	The A3P400 "208-Pin PQFP" pin table was updated.	4-25
	The A3P060 "144-Pin FBGA" pin table was updated.	4-32
	The A3P125 "144-Pin FBGA" pin table is new.	4-34

Previous Version	Changes in Current Version (v1.5)	Page
Advance v0.5 (continued)	The A3P400 "144-Pin FBGA" is new.	4-38
	The A3P400 "256-Pin FBGA" was updated.	4-48
	The A3P1000 "256-Pin FBGA" was updated.	4-54
	The A3P400 "484-Pin FBGA" was updated.	4-58
	The A3P1000 "484-Pin FBGA" was updated.	4-68
Advance v0.2	The A3P250 "100-Pin VQFP*" pin table was updated.	4-14
	The A3P250 "208-Pin PQFP*" pin table was updated.	4-23
	The A3P1000 "208-Pin PQFP*" pin table was updated.	4-29
	The A3P250 "144-Pin FBGA*" pin table was updated.	4-36
	The A3P1000 "144-Pin FBGA*" pin table was updated.	4-32
	The A3P250 "256-Pin FBGA*" pin table was updated.	4-45
	The A3P1000 "256-Pin FBGA*" pin table was updated.	4-54
	The A3P1000 "484-Pin FBGA*" pin table was updated.	4-68

Datasheet Categories

Categories

In order to provide the latest information to designers, some datasheets are published before data has been fully characterized. Datasheets are designated as "Product Brief," "Advance," "Preliminary," and "Production." The definitions of these categories are as follows:

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The product brief is a summarized version of a datasheet (advance or production) and contains general product information. This document gives an overview of specific device and family information.

Advance

This version contains initial estimated information based on simulation, other products, devices, or speed grades. This information can be used as estimates, but not for production. This label only applies to the DC and Switching Characteristics chapter of the datasheet and will only be used when the data has not been fully characterized.

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The datasheet contains information based on simulation and/or initial characterization. The information is believed to be correct, but changes are possible.

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