



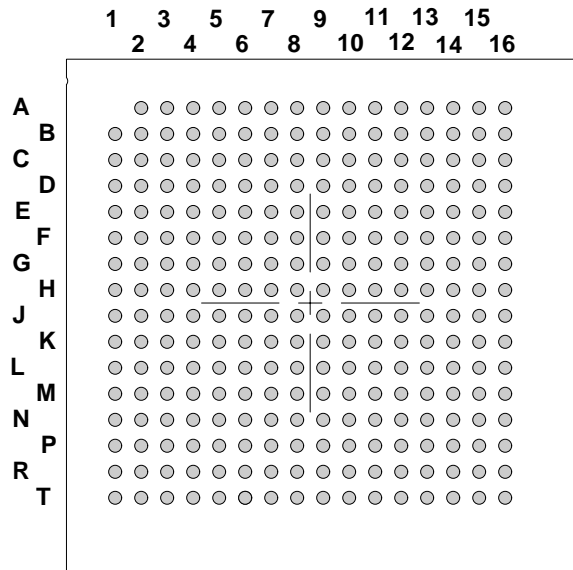
Ironwood Electronics, Inc.

PO Box 21151 • St Paul, MN 55121 • (651) 452-8100 • Fax (651) 452-8400

DC-BGA/BGA-750-S-T-01 Map

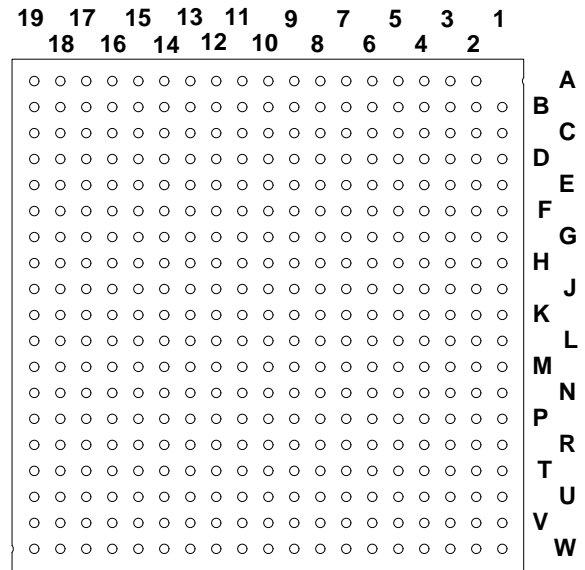
3/12/99, Rev A

PPC603 (BGA255)



Top View

PPC750 (BGA360)



Bottom View

Netlist Table

Signal Name	PPC603	PPC750
CKSTP_OUT_L	A6	D7
HRESET_L	A7	B6
PLL_CFG0	A8	A4
PLL_CFG2	A9	A6
AVDD	A10	A8
TDI	A11	B7
TDO	A12	D9
TSIZ0	A13	A9
TBST_L	A14	A11
TT1	A15	D11
SMI_L	A16	A12
AP3	B2	C7
AP2	B3	C6
AP1	B4	C5
BR_L	B6	E7
PLL_CFG1	B9	A5
LSSD_MODE_L	B10	F9
TMS	B11	C8
TSIZ2	B12	C9

Signal Name	PPC603	PPC750
TT0	B13	C10
SRESET_L	B14	E10
INT_L	B15	C11
TT2	B16	B12
AP0	C1	C4
TBEN	C2	A2
TLBISYNC_L	C4	A3
SYSCLK	C9	H9
TRST_L	C10	A10
TCK	C11	B10
MCP_L	C13	B11
TT3	C14	C12
TT4	C15	F11
A0	C16	A13
RSRV_L	D1	D3
WT_L	D2	C3
QACK_L	D3	B2
A9	D4	G7
CLK_OUT	D7	E3

Signal Name	PPC603	PPC750
CKSTP_IN_L	D8	B8
PLL_CFG3	D9	A7
TSIZ1	D10	B9
L1_TSTCLK	D11	F8
L2_TSTCLK	D12	F7
A2	D13	H11
A4	D14	B13
A6	D15	C13
A8	D16	D13
CI_L	E1	C2
A7	E2	E5
A1	E4	D2
A10	E13	F12
A12	E15	G6
A14	E16	E2
GBL_L	F1	B1
A3	F2	C1
VOLTDDET	F3	K13
A23	F4	F3



Ironwood Electronics, Inc.

PO Box 21151 • St Paul, MN 55121 • (651) 452-8100 • Fax (651) 452-8400

DC-BGA/BGA-750-S-T-01 Map

3/12/99, Rev A

Signal Name	PPC603	PPC750
A16	F13	G5
A18	F14	G4
A20	F15	H7
A22	F16	G2
A5	G1	F2
A11	G2	G3
DBWO_L	G4	D1
A24	G13	J7
A26	G15	H3
DRTRY_L	G16	H6
A13	H1	H2
A15	H2	L3
A21	H3	E1
TEA_L	H13	J1
TA_L	H14	F1
DBDIS_L	H15	G1
A28	H16	J6
A17	J1	L4
A19	J2	J4
QREQ_L	J3	J3
ARTRY_L	J4	L6
TS_L	J13	K7
DBB_L	J14	K5
A30	J15	K2
A25	K1	M3
A27	K2	J2
ABB_L	K4	L7
DL0	K13	M6
DL1	K15	P3
DL2	K16	N4
BG_L	L1	H1
AACK_L	L2	N3
DP1	L3	P2
DP3	L4	V2
DL5	L13	M7

Signal Name	PPC603	PPC750
DL6	L14	T2
DL4	L15	R3
DL3	L16	N5
A29	M1	K3
DP0	M2	L1
DP6	M4	T3
DL9	M13	N7
DL8	M15	U2
DL7	M16	N6
DBG_L	N1	K1
DP2	N2	M2
DL24	N3	P1
DL25	N4	V1
DH29	N5	W3
DH25	N6	W4
DH21	N7	R7
DH18	N8	V9
DH13	N9	R10
DL19	N10	T11
DH7	N11	M11
DL21	N12	V12
DL12	N13	U12
DL13	N14	P12
DL11	N15	V13
DL10	N16	P11
A31	P1	L2
DP5	P2	N2
DL23	P3	T1
DL29	P4	V3
DH24	P6	U5
DH17	P8	U8
DH12	P9	W9
DH6	P11	U10
DL20	P13	U11
DH0	P14	W12

Signal Name	PPC603	PPC750
DL15	P15	W13
DL14	P16	T13
DP4	R1	M1
DP7	R2	R1
DL26	R3	U1
DL31	R4	W2
DH28	R5	V4
DH26	R6	P7
DH22	R7	U6
DH19	R8	T7
DH15	R9	V7
DH11	R10	P9
DH8	R11	M9
DH5	R12	U9
DH4	R13	W10
DL17	R14	V10
DH2	R15	V11
DL16	R16	U13
DL27	T1	N1
DL28	T2	R2
DL30	T3	U3
DH31	T4	R5
DH30	T5	U4
DH27	T6	V5
DH23	T7	W5
DH20	T8	U7
DH16	T9	V6
DH14	T10	W6
DH10	T11	W7
DH9	T12	P8
DL22	T13	V8
DL18	T14	W8
DH3	T15	T9
DH1	T16	W11

Note: Below are the positions tied to individual Planes. P6 denotes a signal from the PPC603 side. P7 denotes a signal from the PPC750 side.

GND Plane

P7-T10	P7-T4	P7-T16	P6-P12	P7-T14	P7-R12	P6-P5	P7-T6
P7-R8	P7-P14	P7-P16	P7-P6	P7-N11	P6-M11	P6-M8	P6-M9



Ironwood Electronics, Inc.

PO Box 21151 • St Paul, MN 55121 • (651) 452-8100 • Fax (651) 452-8400

DC-BGA/BGA-750-S-T-01 Map

3/12/99, Rev A

P7-N9	P7-P10	P6-M3	P7-P4	P7-M15	P6-M14	P6-L12	P7-M10
P6-L5	P6-M6	P7-M5	P6-L7	P7-M8	P6-K11	P7-M12	P6-L10
P6-K8	P6-K9	P7-L9	P7-K16	P6-J10	P7-K12	P7-L11	P6-J5
P6-K6	P7-K6	P7-K4	P6-J12	P6-H12	P7-K14	P7-K10	P6-J7
P6-H7	P7-K8	P6-H5	P6-H10	P7-J11	P7-J9	P6-G11	P7-H12
P7-H5	P7-H15	P6-G9	P7-H10	P6-G8	P6-F7	P6-G6	P7-H8
P6-F12	P7-G11	P6-F5	P7-G9	P6-E9	P6-F10	P7-F10	P7-F16
P6-E14	P7-F14	P6-E11	P7-E12	P6-E6	P7-F6	P6-E3	P7-F4
P7-E8	P6-E8	P7-D14	P7-D10	P6-C5	P7-D6	P7-D16	P6-C12
P7-D4							

OVDD Plane

P6-P10	P7-R11	P7-T12	P6-P7	P7-R9	P7-T8	P7-R4	P7-T5
P7-R6	P7-P5	P6-M12	P6-M7	P6-M10	P6-M5	P7-M4	P6-K14
P6-K12	P6-K5	P6-K3	P7-L5	P6-G14	P6-G12	P6-G5	P6-G3
P7-H4	P7-J5	P6-E12	P6-E7	P6-E5	P7-E6	P7-F5	P7-E11
P6-E10	P7-E9	P7-E4	P7-D12	P7-D5	P6-C7	P7-D8	

VDD Plane

P7-N10	P7-N8	P6-L11	P7-N12	P6-L6	P7-L12	P6-K10	P6-L9
P6-K7	P6-L8	P7-L8	P6-J9	P7-L10	P6-J8	P6-H11	P6-J11
P7-J12	P7-J8	P6-H6	P6-J6	P6-H9	P7-J10	P6-H8	P6-G7
P6-G10	P6-F6	P7-G8	P7-G10	P6-F8	P6-F11	P7-G12	P6-F9

List of Unused Pins

P6-A2	P6-A3	P6-A4	P6-A5	P6-B1	P6-B5	P6-B7	P6-B8
P6-C3	P6-C6	P6-C8	P6-D5	P6-D6	P6-H4	P6-J16	P7-A14
P7-A15	P7-A16	P7-A17	P7-A18	P7-A19	P7-B14	P7-B15	P7-B16
P7-B17	P7-B18	P7-B19	P7-B3	P7-B4	P7-B5	P7-C14	P7-C15
P7-C16	P7-C17	P7-C18	P7-C19	P7-D15	P7-D17	P7-D18	P7-D19
P7-E13	P7-E14	P7-E15	P7-E16	P7-E17	P7-E18	P7-E19	P7-F13
P7-F15	P7-F17	P7-F18	P7-F19	P7-G13	P7-G14	P7-G15	P7-G16
P7-G17	P7-G18	P7-G19	P7-H13	P7-H14	P7-H16	P7-H17	P7-H18
P7-H19	P7-J13	P7-J14	P7-J15	P7-J16	P7-J17	P7-J18	P7-J19
P7-K11	P7-K15	P7-K17	P7-K18	P7-K19	P7-K9	P7-L13	P7-L14
P7-L15	P7-L16	P7-L17	P7-L18	P7-L19	P7-M13	P7-M14	P7-M16
P7-M17	P7-M18	P7-M19	P7-N13	P7-N14	P7-N15	P7-N16	P7-N17
P7-N18	P7-N19	P7-P13	P7-P15	P7-P17	P7-P18	P7-P19	P7-R13
P7-R14	P7-R15	P7-R16	P7-R17	P7-R18	P7-R19	P7-T15	P7-T17
P7-T18	P7-T19	P7-U14	P7-U15	P7-U16	P7-U17	P7-U18	P7-U19
P7-V14	P7-V15	P7-V16	P7-V17	P7-V18	P7-V19	P7-W1	P7-W14
P7-W15	P7-W16	P7-W17	P7-W18	P7-W19			