

Santa Cruz Connector Spec

Altera Corporation

Rev07

Spec written by: Kenyon Kluge

History

Rev01 - Spec was started 10/1/2002

Rev02 - added Santa Cruz long board spec 11/1/2002

Rev03 - Made some corrections and added detail to the spec 4/20/2003

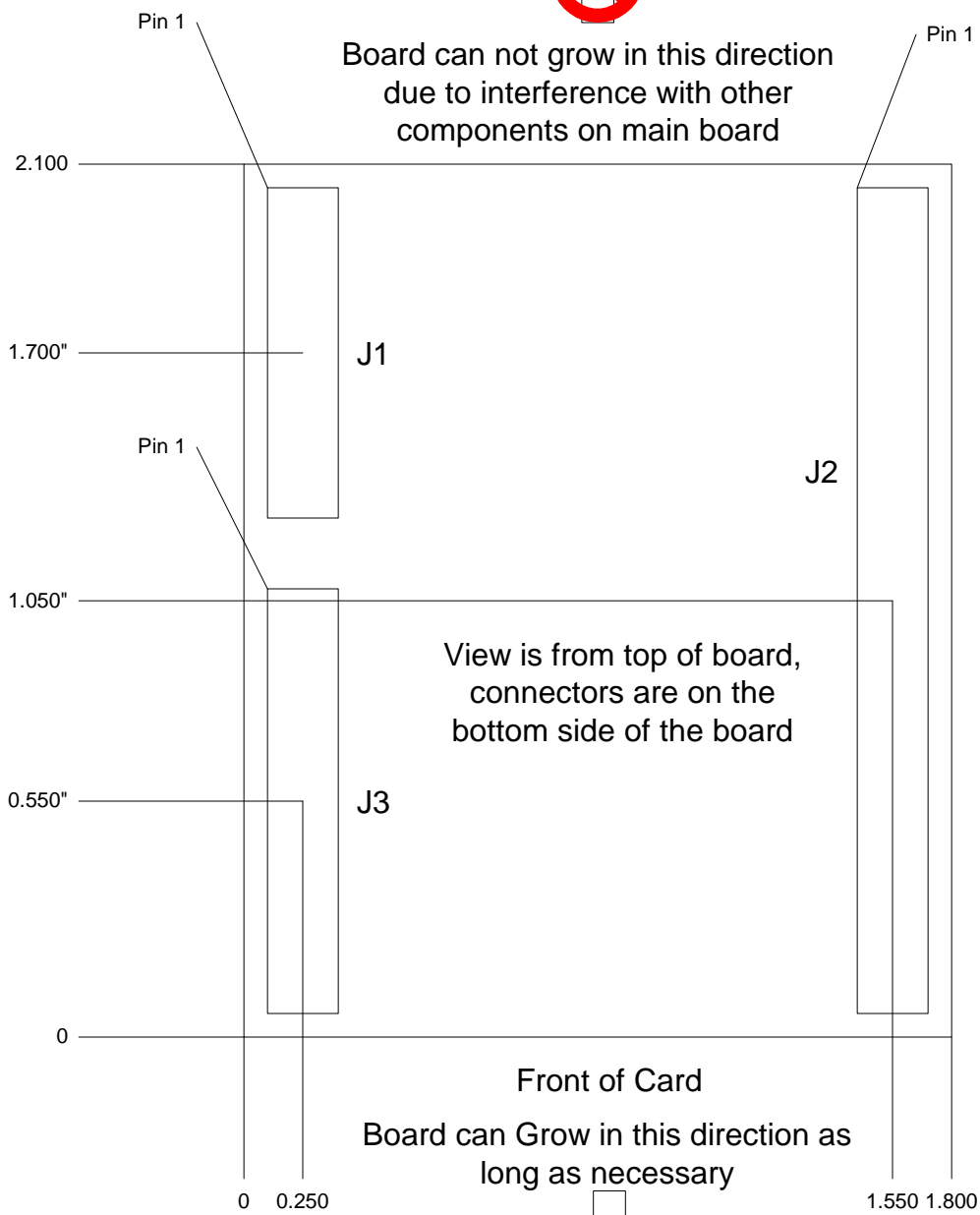
Rev04 - Added a detail on how to grow the boards. 4/25/2003

Rev05 - Made some corrections added the TI EVM connectors and the ADI connectors 5/7/2003

Rev06 - Corrected pin 3 on J1 of SC header from NC to pin 40. Changed pin 2 on J1 from NC to VCC_5. Changed pins 15 17 and 19 on J3 from NC to VCC_3_3. 3/8/2004

Rev07 - Added Dual SC Board spacing page outlining the spacing between the two SC connectors. 3/23/2004

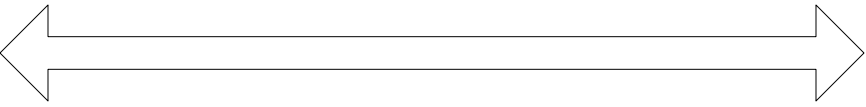
Santa Cruz Connector



Board can not grow in this direction due to interference with other components on main board

View is from top of board, connectors are on the bottom side of the board

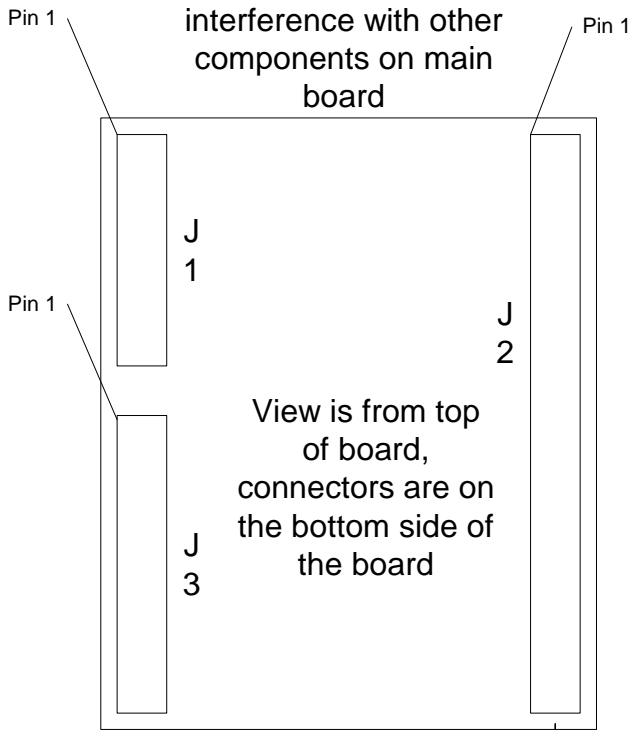
Front of Card
Board can Grow in this direction as long as necessary



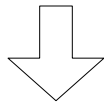
Board can grow in either direction a long as necessary, but not in both directions on the same board.



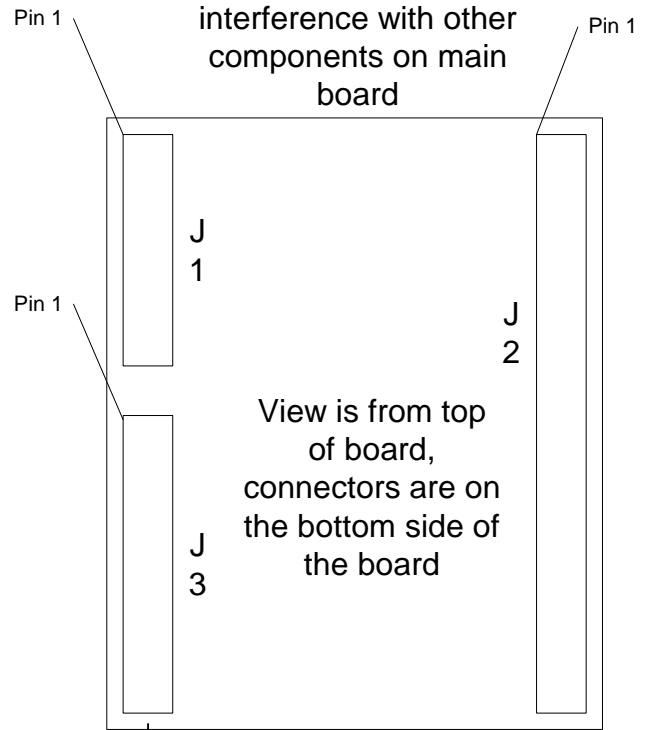
Board can not grow in this direction due to interference with other components on main board



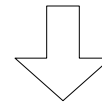
Front of Card
Board can Grow in this direction as long as necessary



Board can not grow in this direction due to interference with other components on main board



Front of Card
Board can Grow in this direction as long as necessary



0.650"

Santa Cruz Connector Pinout

J1

GND	1	2	VCC_5
PROTOIO40	3	4	PROTOIO29
PROTOIO30	5	6	PROTOIO31
PROTOIO32	7	8	PROTOIO33
PROTOIO34	9	10	PROTOIO35
PROTOIO36	11	12	PROTOIO37
PROTOIO38	13	14	PROTOIO39

J2

RESET-	1	2	GND
PROTOIO0	3	4	PROTOIO1
PROTOIO2	5	6	PROTOIO3
PROTOIO4	7	8	PROTOIO5
PROTOIO6	9	10	PROTOIO7
PROTOIO8	11	12	PROTOIO9
PROTOIO10	13	14	PROTOIO11
PROTOIO12	15	16	PROTOIO13
PROTOIO14	17	18	PROTOIO15
GND	19	20	NC
PROTOIO16	21	22	GND
PROTOIO17	23	24	GND
PROTOIO18	25	26	GND
PROTOIO19	27	28	PROTOIO20
PROTOIO21	29	30	GND
PROTOIO22	31	32	PROTOIO23
PROTOIO24	33	34	GND
PROTOIO25	35	36	PROTOIO26
PROTOIO27	37	38	CARDSEL-
PROTOIO28	39	40	GND

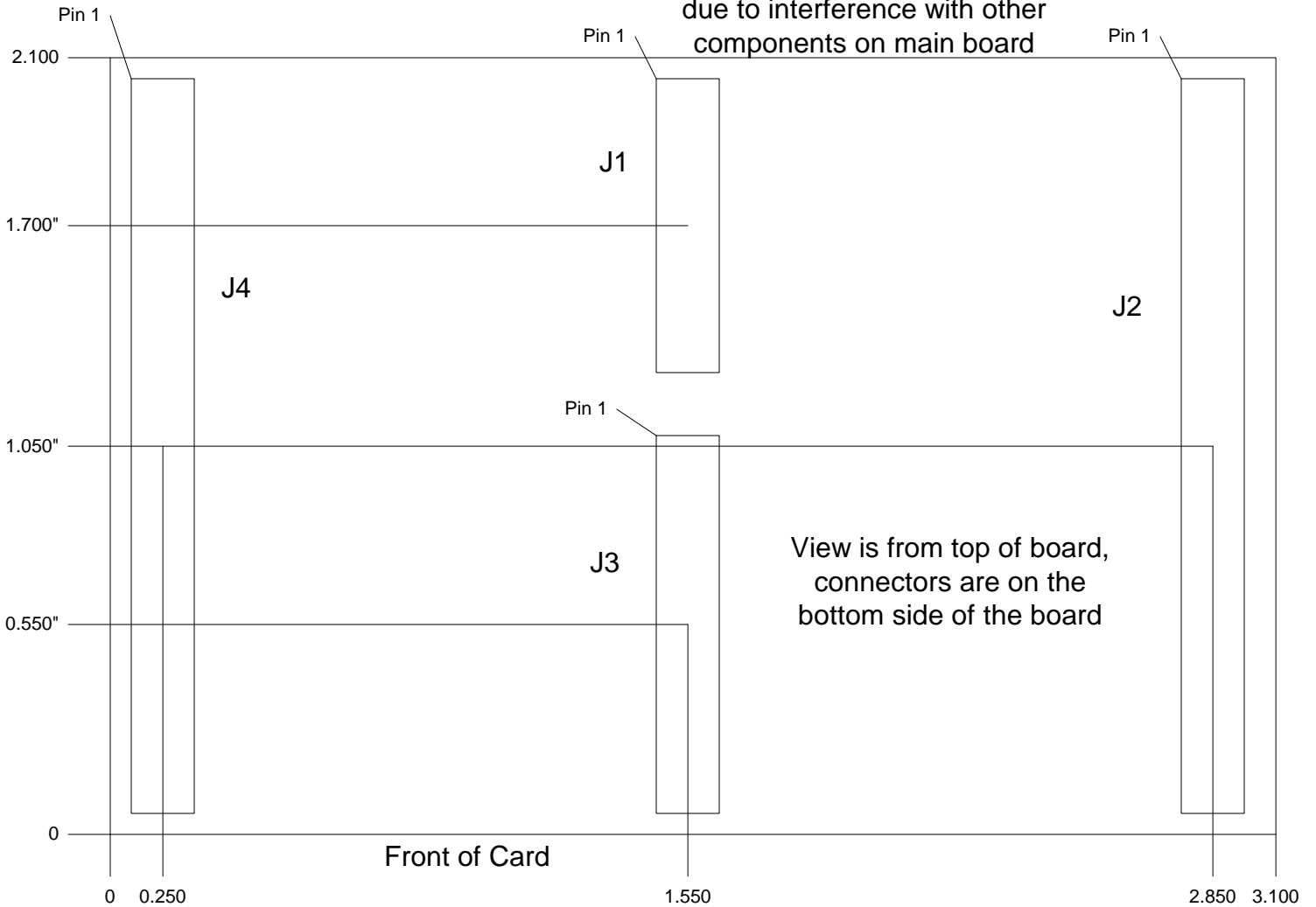
J3

Vunreg	1	2	GND
NC	3	4	GND
VCC3_3	5	6	GND
VCC3_3	7	8	GND
OSC	9	10	GND
CLK1	11	12	GND
CLK2	13	14	GND
VCC3_3	15	16	GND
VCC3_3	17	18	GND
VCC3_3	19	20	GND

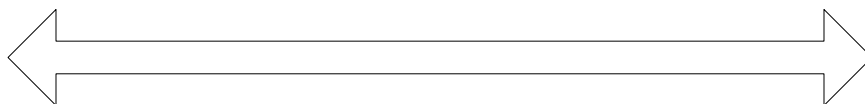
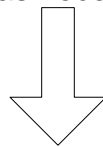
Santa Cruz Long Connector



Board can not grow in this direction
due to interference with other
components on main board



Board can Grow in this direction as
long as necessary



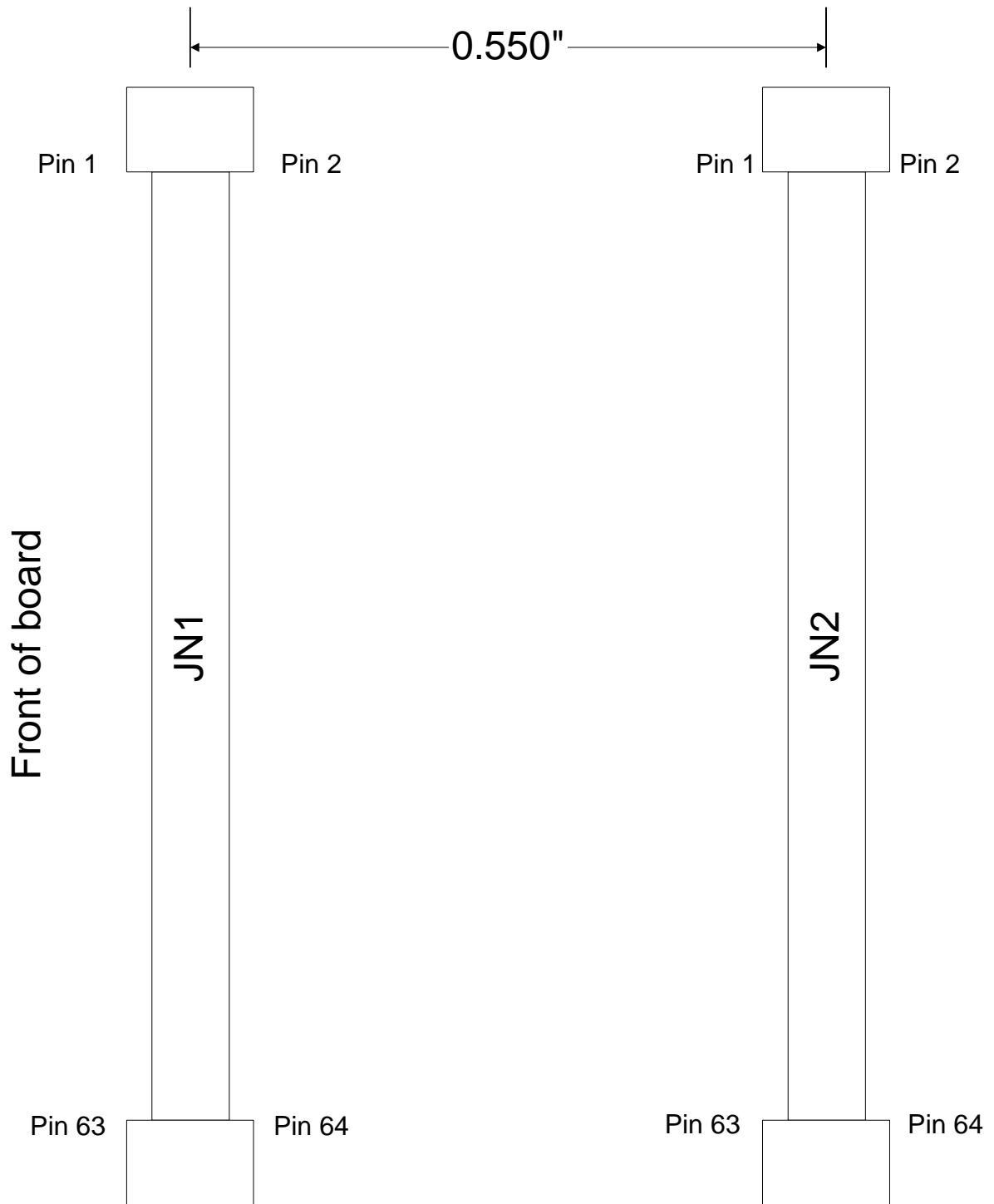
Board can grow in either direction a long as necessary,

Santa Cruz Long Connector Pinout

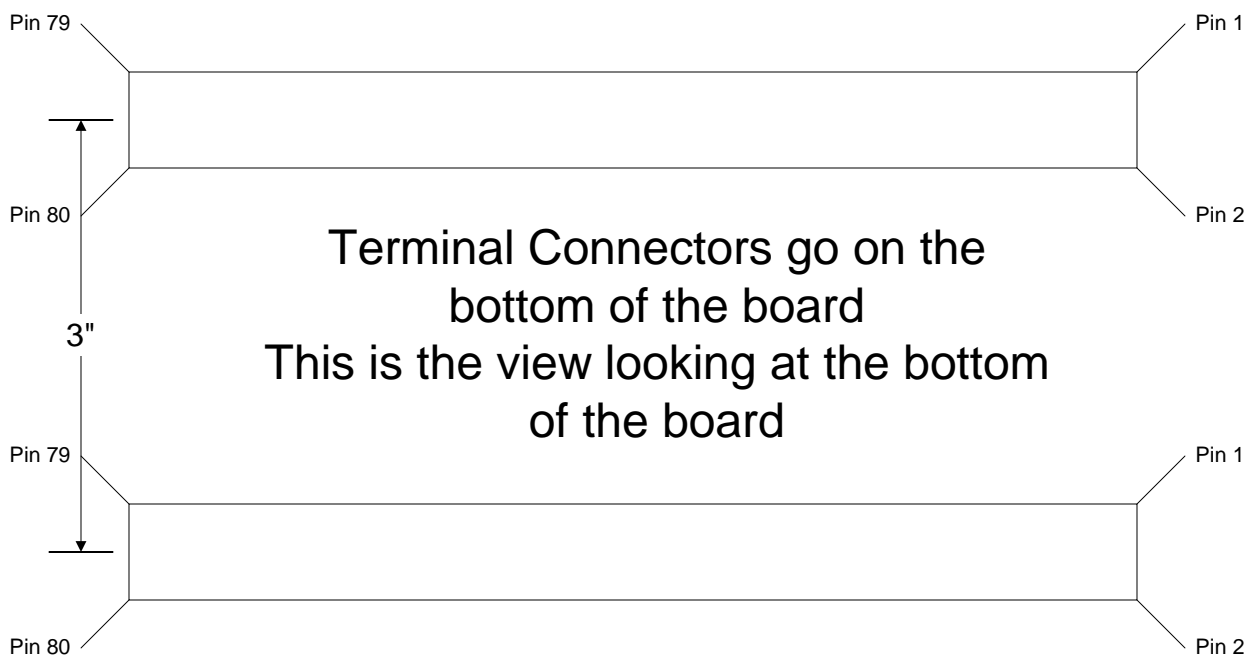
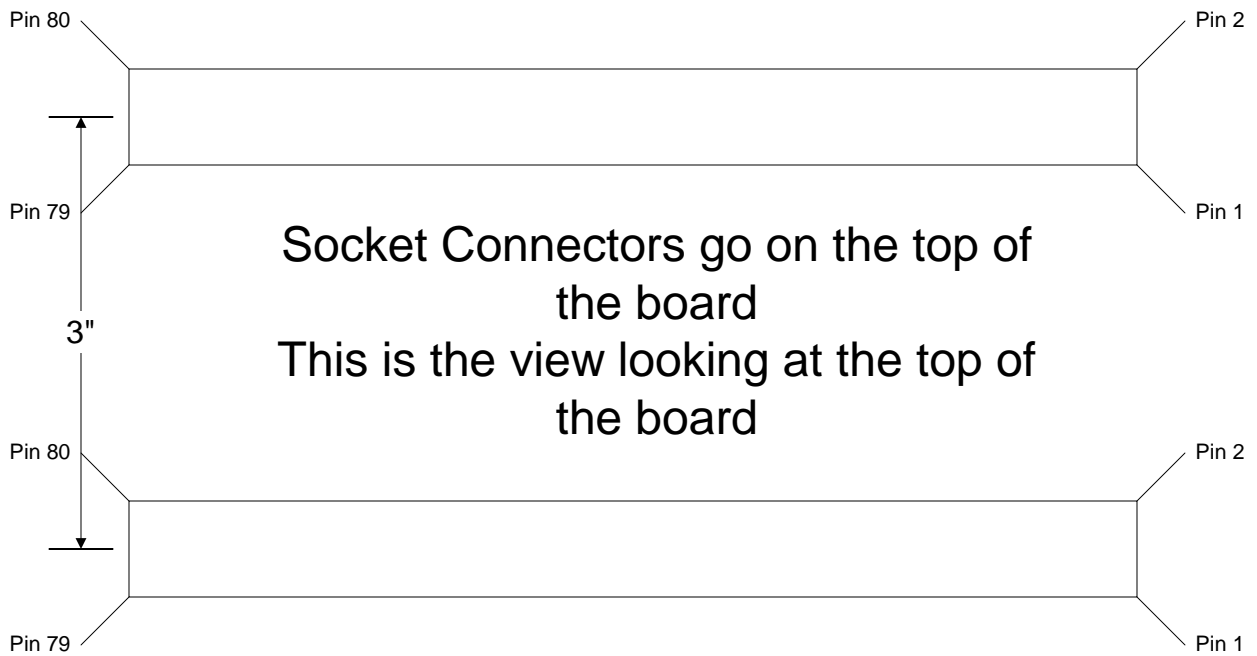
J4

Note: For Santa Cruz Long Connector J1, J2, and J3 are the same pinout as on the regular SC Connector

GND	1	2	GND
IO	3	4	IO
IO	5	6	IO
IO	7	8	IO
IO	9	10	IO
IO	11	12	IO
GND	13	14	GND
IO	15	16	IO
IO	17	18	IO
IO	19	20	IO
IO	21	22	IO
IO	23	24	IO
IO	25	26	IO
GND	27	28	GND
IO	29	30	IO
IO	31	32	IO
IO	33	34	IO
IO	35	36	IO
IO	37	38	IO
GND	39	40	GND



PMC Expansion
board Headers



ADI Connectors are placed on the top side of the board. They connect to the ADI card with cables so their placement does not need to be precise

