



NEWWOOD SOLUTIONS Ltd

Derby Office: 15 Kings Croft, Allestree, Derby, DE22 2FP.
Tel +44 (0)1332 721326

Reading Office: 13 Highfield Road, Tilehurst, Reading RG31 6YR.
Tel +44 (0) 118 9012298

Email: sales@newwoodsolutions.co.uk

Web: www.newwoodsolutions.co.uk

SCB 9304

Straight-through Signal Conditioning Board

Product Specification

Document Nos.: SCB9304/G/X/2.1

Date: 31/12/2019

Author: AB/MCB/MRN

Revision History

The following table shows the revision history for this document.

Date	Version	Change Notes
04/11/2009	2.0	PCB Issue 2
30/12/2019	2.1	Change from Hytec to Newwood Solutions for contact details

Contents

1.	INTRODUCTION	3
2.	PRODUCT SPECIFICATIONS.....	3
2.1	POWER REQUIREMENTS.....	3
2.2	OPERATING TEMPERATURE RANGE	3
2.3	MECHANICAL	3
2.4	SIGNAL SPECIFICATIONS	3

1. INTRODUCTION

The SCB 9304 is a small straight-through signal conditioning card used to route signals from Industry Pack I/O to front panel SCSI connectors in the IOC 9010 and VME64X VTB 8307 Mixed Signal Transition Board

2. PRODUCT SPECIFICATIONS

2.1 Power Requirements

None

2.2 Operating Temperature Range

0 to +45 deg Celsius ambient.

2.3 Mechanical

Printed circuit board with two 50-way sockets PL1, PL2 and 6 way power plug PL3 (not used)
Board Dimensions: 2.55 x 1.80 inches

2.4 Signal Specifications

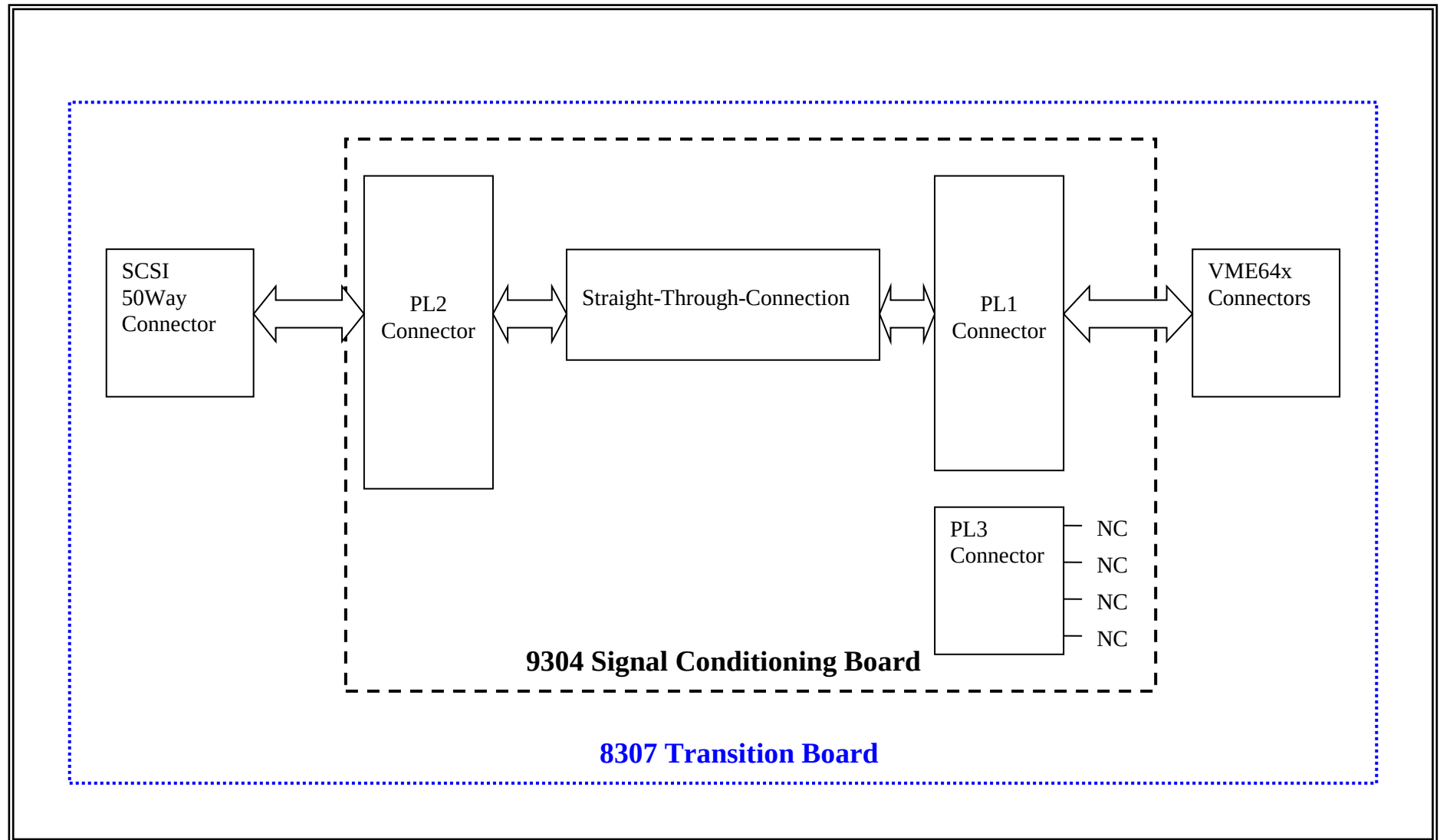
Each socket pin of PL1 connects to the corresponding pin of PL2.

E.g. PL1/1 – PL2/1

PL1/2 – PL2/2 to

“ “

PL1/50 – PL2/50



Block Diagram Example of connections between the 8307 transition card and 9304 SCB module

Table1 of Signal Allocation PL1

Pin	Signal	Pin	Signal
1	VME I/O 1 +ve	26	VME I/O 13 -ve
2	VME I/O 1 -ve	27	VME I/O 14 +ve
3	VME I/O 2 +ve	28	VME I/O 14 -ve
4	VME I/O 2 -ve	29	VME I/O 15 +ve
5	VME I/O 3 +ve	30	VME I/O 15 -ve
6	VME I/O 3 -ve	31	VME I/O 16 +ve
7	VME I/O 4 +ve	32	VME I/O 16 -ve
8	VME I/O 4 -ve	33	VME I/O 17 +ve
9	VME I/O 5 +ve	34	VME I/O 17 -ve
10	VME I/O 5 -ve	35	VME I/O 18 +ve
11	VME I/O 6 +ve	36	VME I/O 18 -ve
12	VME I/O 6 -ve	37	VME I/O 19 +ve
13	VME I/O 7 +ve	38	VME I/O 19 -ve
14	VME I/O 7 -ve	39	VME I/O 20 +ve
15	VME I/O 8 +ve	40	VME I/O 20 -ve
16	VME I/O 8 -ve	41	VME I/O 21 +ve
17	VME I/O 9 +ve	42	VME I/O 21 -ve
18	VME I/O 9 -ve	43	VME I/O 22 +ve
19	VME I/O 10 +ve	44	VME I/O 22 -ve
20	VME I/O 10 -ve	45	VME I/O 23 +ve
21	VME I/O 11 +ve	46	VME I/O 23 -ve
22	VME I/O 11 -ve	47	VME I/O 24 +ve
23	VME I/O 12 +ve	48	VME I/O 24 -ve
24	VME I/O 12 -ve	49	VME I/O 25 +ve
25	VME I/O 13 +ve	50	VME I/O 25 -ve

Table of Signal Allocation PL2

Pin	Signal	Pin	Signal
1	SCSI I/O 1 +ve	26	SCSI I/O 13 -ve
2	SCSI I/O 1 -ve	27	SCSI I/O 14 +ve
3	SCSI I/O 2 +ve	28	SCSI I/O 14 -ve
4	SCSI I/O 2 -ve	29	SCSI I/O 15 +ve
5	SCSI I/O 3 +ve	30	SCSI I/O 15 -ve
6	SCSI I/O 3 -ve	31	SCSI I/O 16 +ve
7	SCSI I/O 4 +ve	32	SCSI I/O 16 -ve
8	SCSI I/O 4 -ve	33	SCSI I/O 17 +ve
9	SCSI I/O 5 +ve	34	SCSI I/O 17 -ve
10	SCSI I/O 5 -ve	35	SCSI I/O 18 +ve
11	SCSI I/O 6 +ve	36	SCSI I/O 18 -ve
12	SCSI I/O 6 -ve	37	SCSI I/O 19 +ve
13	SCSI I/O 7 +ve	38	SCSI I/O 19 -ve
14	SCSI I/O 7 -ve	39	SCSI I/O 20 +ve
15	SCSI I/O 8 +ve	40	SCSI I/O 20 -ve
16	SCSI I/O 8 -ve	41	SCSI I/O 21 +ve
17	SCSI I/O 9 +ve	42	SCSI I/O 21 -ve
18	SCSI I/O 9 -ve	43	SCSI I/O 22 +ve
19	SCSI I/O 10 +ve	44	SCSI I/O 22 -ve
20	SCSI I/O 10 -ve	45	SCSI I/O 23 +ve
21	SCSI I/O 11 +ve	46	SCSI I/O 23 -ve
22	SCSI I/O 11 -ve	47	SCSI I/O 24 +ve
23	SCSI I/O 12 +ve	48	SCSI I/O 24 -ve
24	SCSI I/O 12 -ve	49	SCSI I/O 25 +ve
25	SCSI I/O 13 +ve	50	SCSI I/O 25 -ve

PL3 Connections

Pin 1 N/C
 Pin 2 N/C
 Pin 3 N/C
 Pin 4 N/C
 Pin 5 N/C
 Pin 6 N/C

Table 3 9010 or 8307 SCSI Pin Allocation

Pin	Signal	Pin	Signal
1	I/O 1 -	26	I/O 1 +
2	I/O 2 -	27	I/O 2 +
3	I/O 3 -	28	I/O 3 +
4	I/O 4 -	29	I/O 4 +
5	I/O 5 -	30	I/O 5 +
6	I/O 6 -	31	I/O 6 +
7	I/O 7 -	32	I/O 7 +
8	I/O 8 -	33	I/O 8 +
9	I/O 9 -	34	I/O 9 +
10	I/O 10 -	35	I/O 10 +
11	I/O 11 -	36	I/O 11 +
12	I/O 12 -	37	I/O 12 +
13	I/O 13 -	38	I/O 13 +
14	I/O 14 -	39	I/O 14 +
15	I/O 15 -	40	I/O 15 +
16	I/O 16 -	41	I/O 16 +
17	I/O 17 -	42	I/O 17 +
18	I/O 18 -	43	I/O 18 +
19	I/O 19 -	44	I/O 19 +
20	I/O 20 -	45	I/O 20 +
21	I/O 21 -	46	I/O 21 +
22	I/O 22 -	47	I/O 22 +
23	I/O 23 -	48	I/O 23 +
24	I/O 24 -	49	I/O 24 +
25	I/O 25 -	50	I/O 25 +