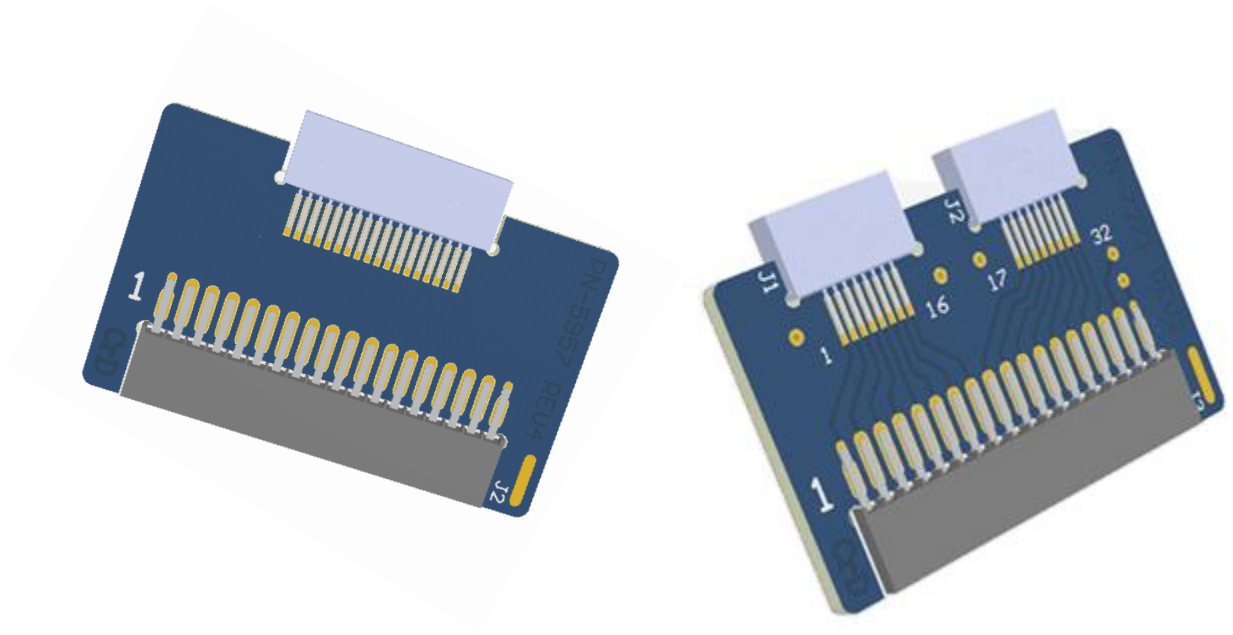


HBA Omnetics

PN 6176 & 7191



Blackrock Microsystems

630 Komas Drive, Suite 200

Salt Lake City, UT 84108

Tel: (866) 806-3692

www.blackrockmicro.com

HBA with Omentics to 16-ch TDT Adapter

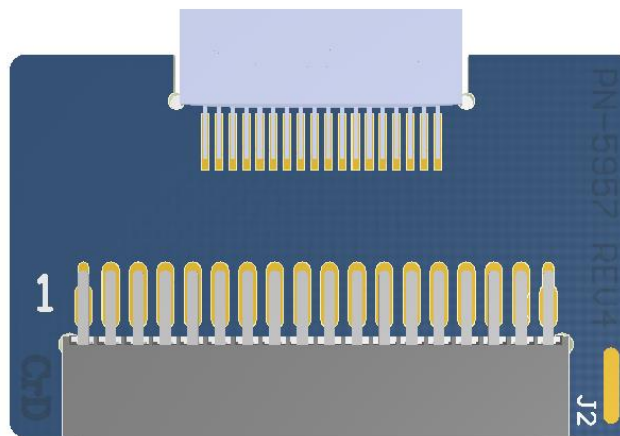
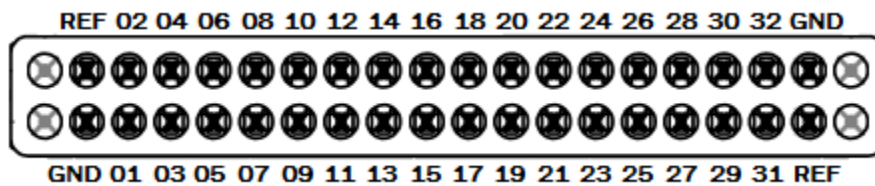
1 Introduction

This assembly acts as an adapter between Blackrock's Neural Signal Simulator and Blackrock's Omnetics Headstages used for neural signal transmission.

2 Hardware

= Signal Mapping
GND = Ground
REF = Reference
NC = Not Connected

2.1 Blackrock Omnetics 32 PN-6176 Pin-out Rev 4⁽¹⁾

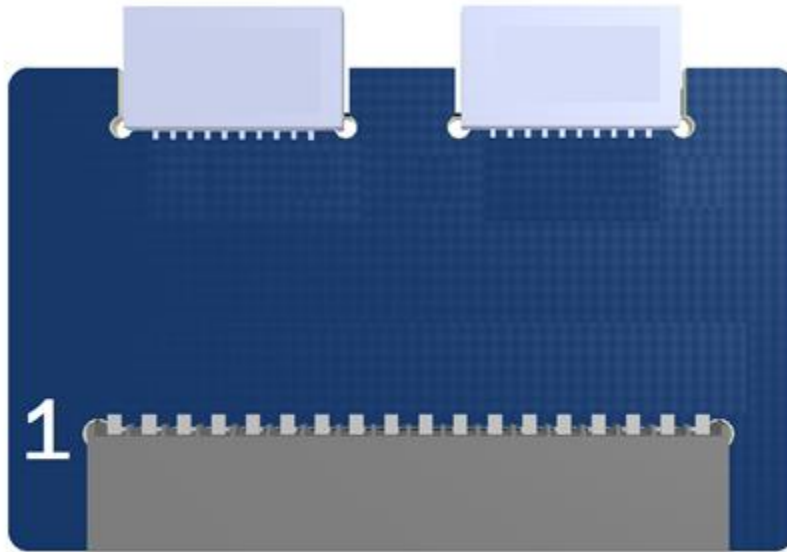
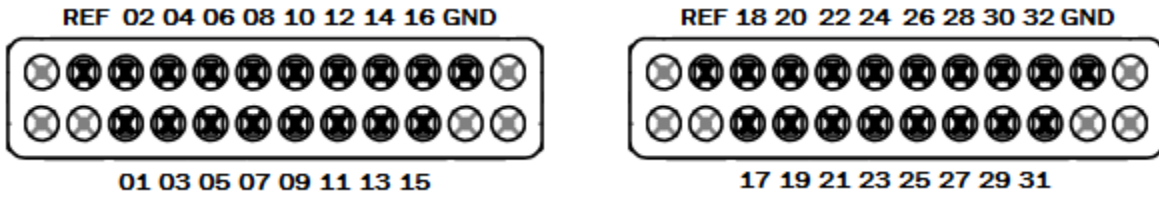


01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31	REF	GND
02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	GND	NC

(1) Note there are several versions and signal mapping of this product. See section 4 for the different revisions and identifications.

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2.2 Blackrock Omnetics 2x16 PN-7191 Pin-out



01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31	REF	GND
02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	GND	NC

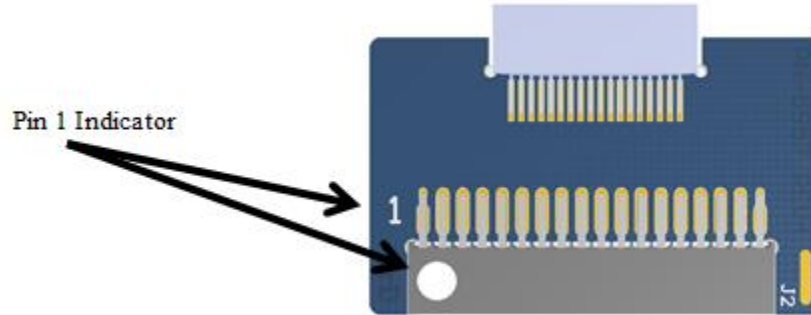
3 Caution

- These products are for use with animal research only

HBA with Omentics to 16-ch TDT Adapter

4 Revision History PN-6176

- 4.1 To correctly identify the board revision you have hold the board so the pin 1 indicator or white dot on the Samtec™ connector is towards you.



- 4.2 Note the board Part number (PN-5957) and revision along the right side of the board and find the correct revision and signal mapping below.
Note: The text is masked over on the PCB and may be hard to read.



4.3 REV 1

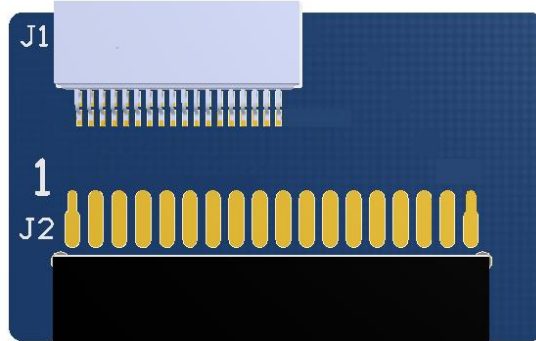
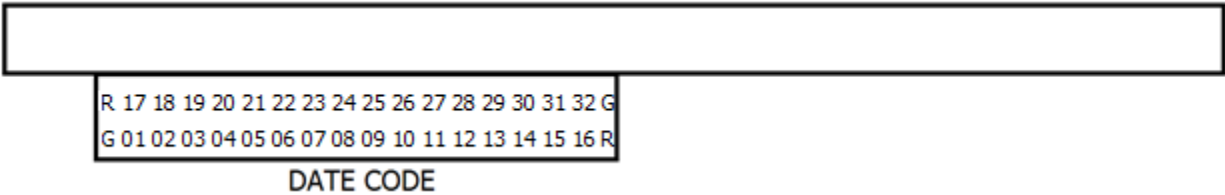
DATE CODE	
R	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 G
G	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 R



01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31	REF	GND
02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	GND	NC

HBA with Omentics to 16-ch TDT Adapter

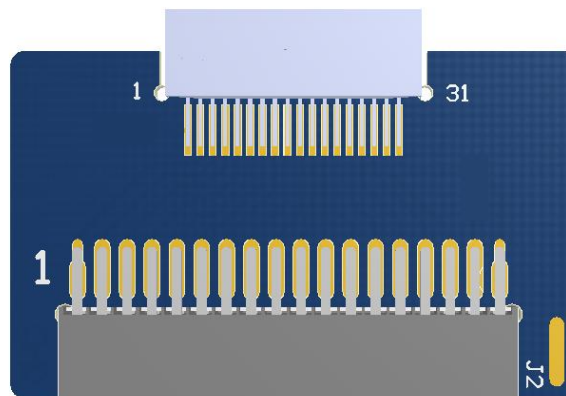
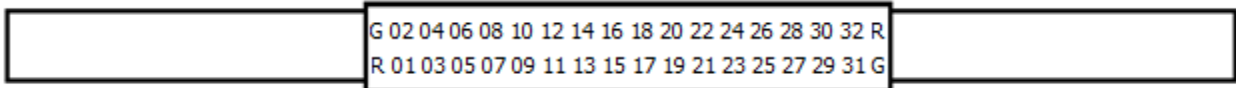
4.4 REV 2



01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31	REF	GND
02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	GND	NC

4.5 REV 3*

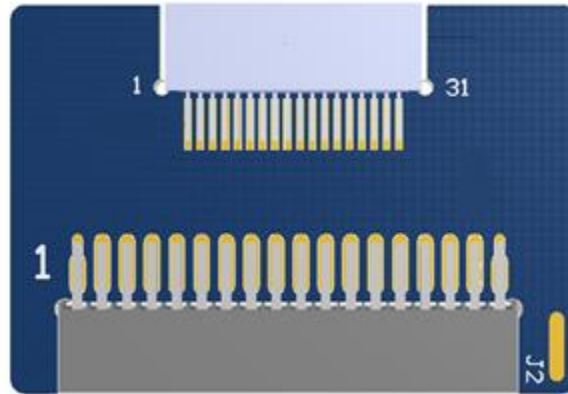
*There are two revisions of Rev. 3. Note the board height with the Omnetics connector height to determine which revision you have.



01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31	REF	GND
02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	GND	NC

HBA with Omentics to 16-ch TDT Adapter

R 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 G
G 01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31 R



01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31 REF GND
02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 GND NC

HBA with Omentics to 16-ch TDT Adapter

5 Warranty

Blackrock Microsystems warrants that its products are free from defects in materials and manufacturing for a period of one year from the date of shipment. Blackrock will, at its option, repair or replace any product that does not comply with this warranty. This warranty is voided by:

1. Any modification or attempted modification to the product done by anyone other than an authorized Blackrock employee
2. Any abuse, negligent handling or misapplication of the product.

This constitutes the sole warranty made by Blackrock, There are no other warranties, expressed or implied, which extend beyond those described herein or to anyone other than the original purchaser, including the implied warranties of merchantability and fitness for a particular purpose. In no event shall Blackrock Microsystems, be liable for any incidental or consequential damages, or for the infringement of any patent rights or third party rights due to the use of its products.

5.1 Return Merchandise Authorization (RMA)

In the unlikely event that your adaptor needs to be returned to Blackrock for repair or maintenance, do not send any equipment back without a Return Merchandise Authorization Number. An RMA number will be issued to you by a Blackrock representative. If you need to obtain an RMA number, you may contact a product support representative at (801) 582-5533 or toll free at (866) 806-3692.

Once an RMA number has been issued, it is important to safely pack the returned item for shipping back to Blackrock. It is preferred that you save the original boxes and packing materials that your system arrived in for return shipment. Please address the package as follows:

Blackrock Microsystems
ATTN: RMA#
630 Komas Drive, Suite 200
Salt Lake City, UT 84108 USA
Tel: (801) 582-5533